

FIG. 1

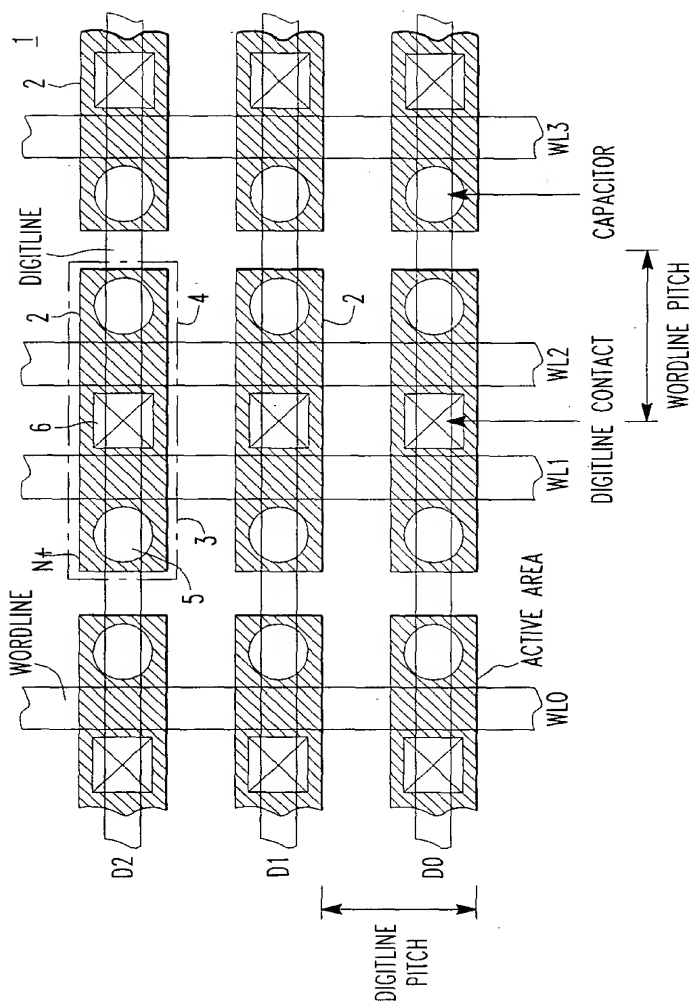


FIG. 1

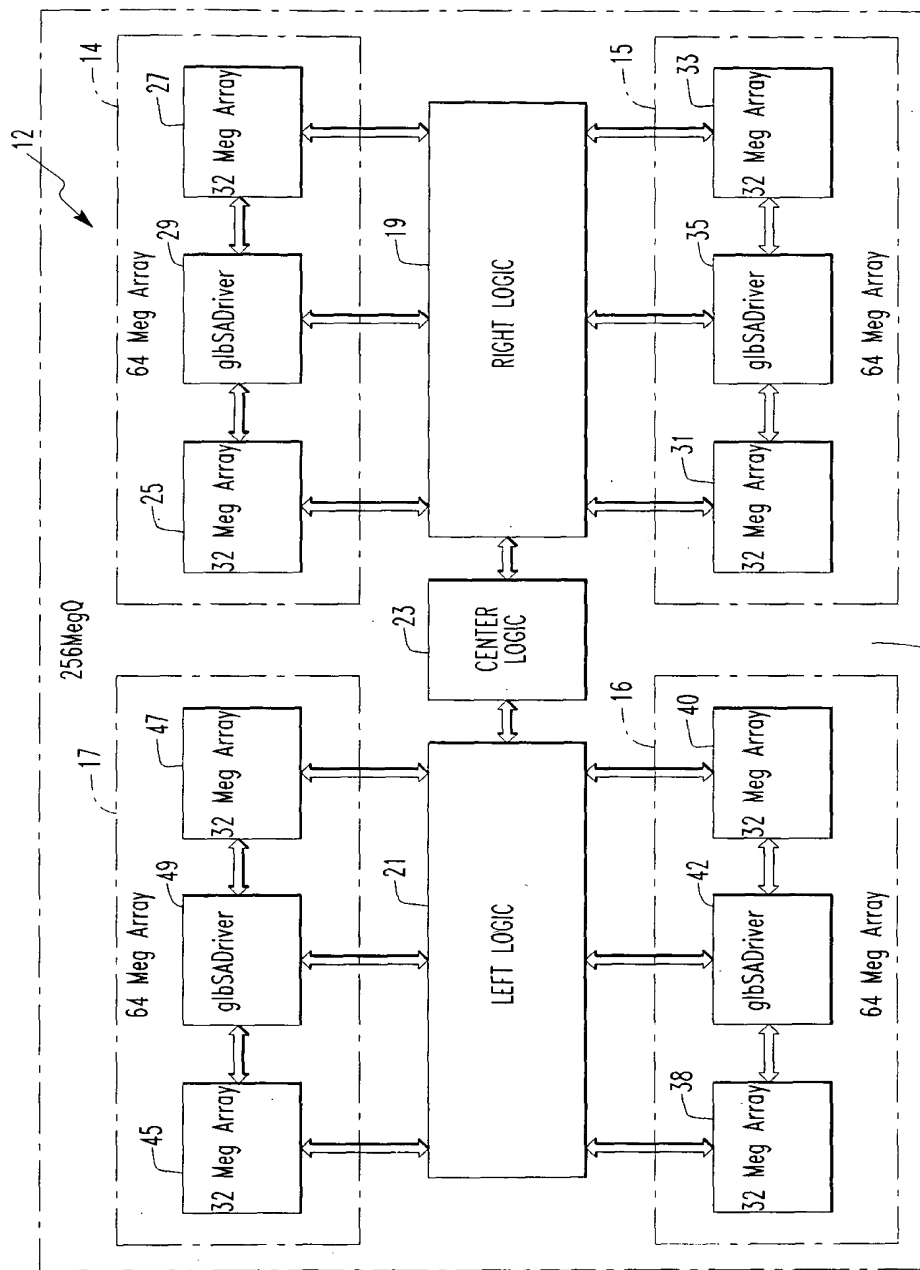


FIG. 2

FIG. 3A

FOOTNOTED "82510860"

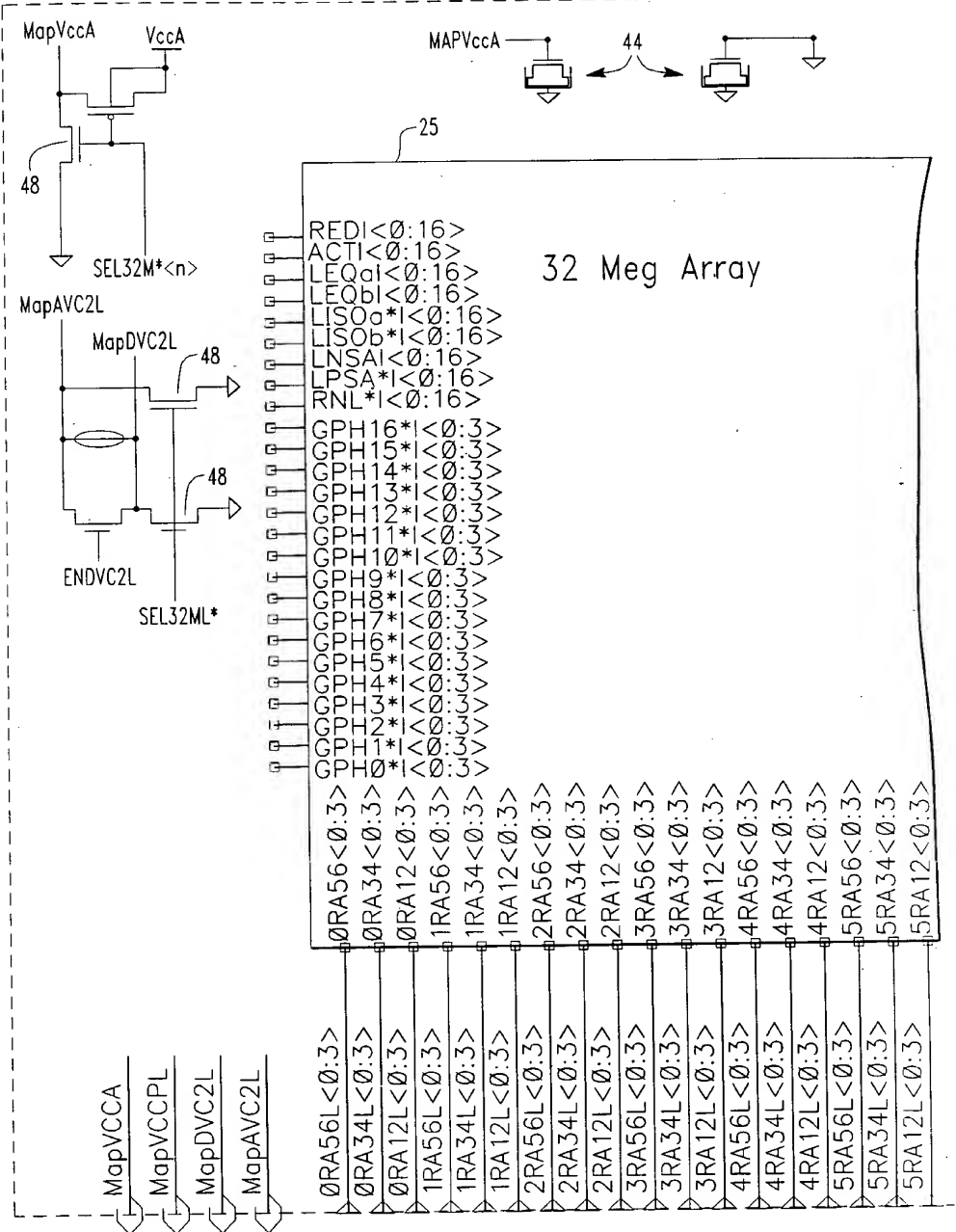


FIG. 3B

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FIG. 3B

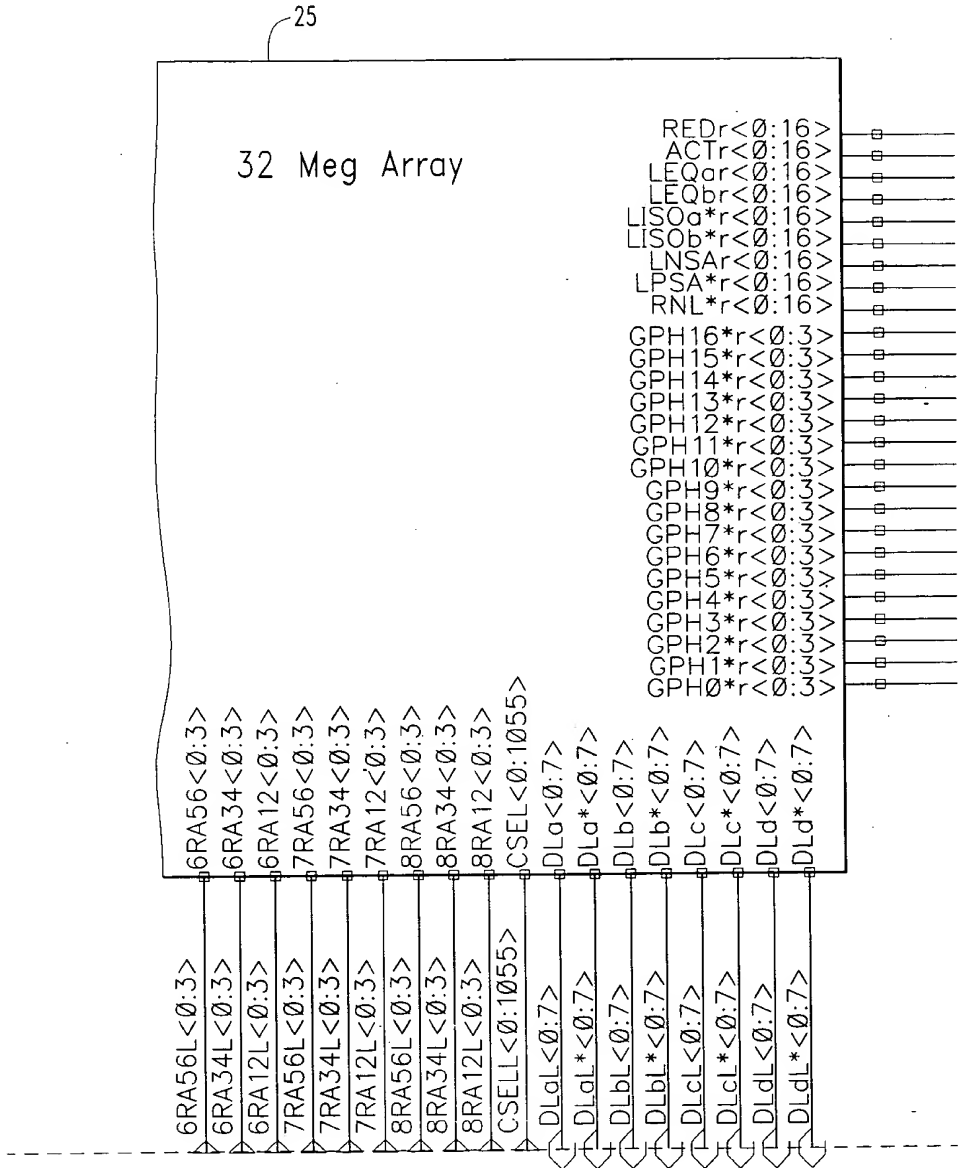


FIG. 3C

TABLE 1-continued

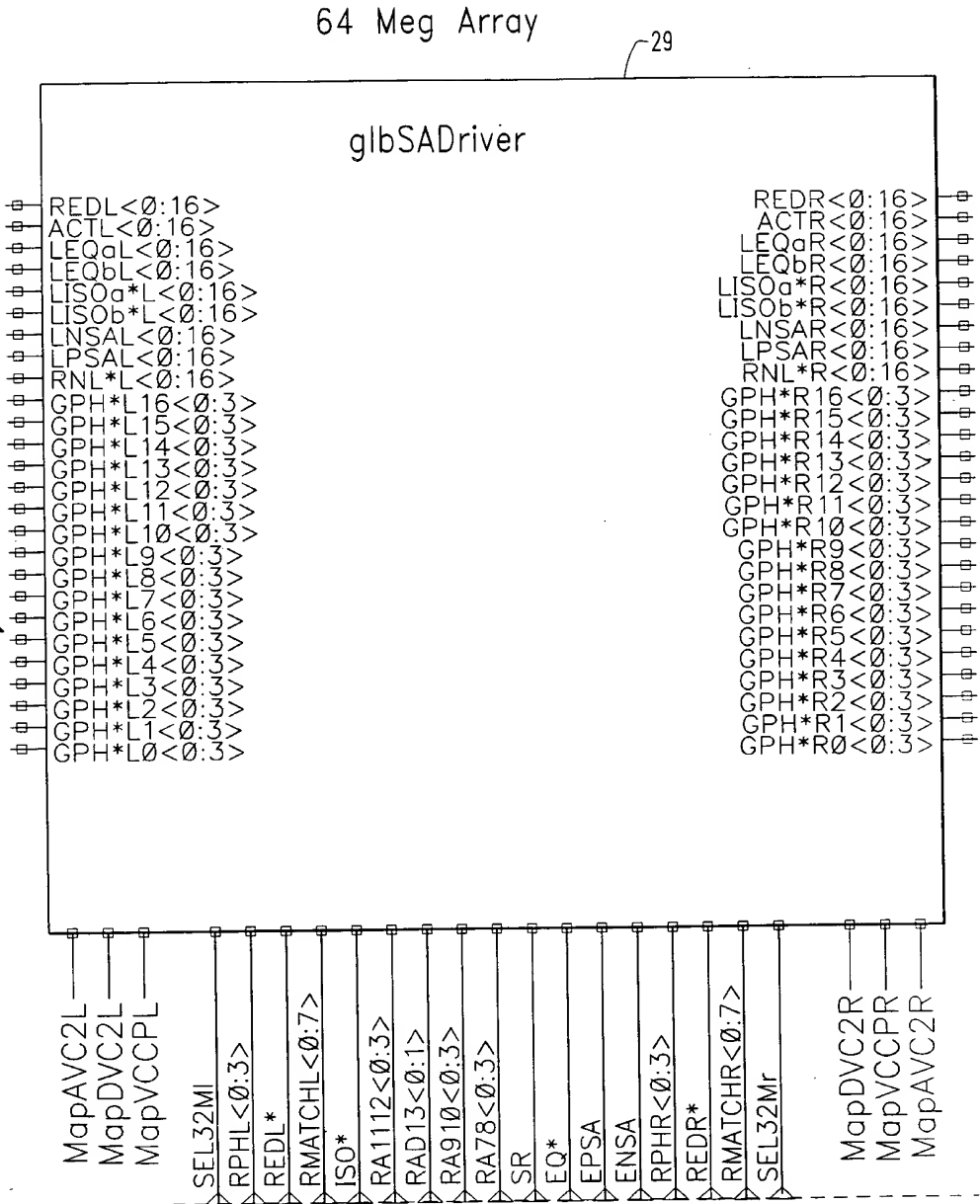


FIG. 3D

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TABLE 2

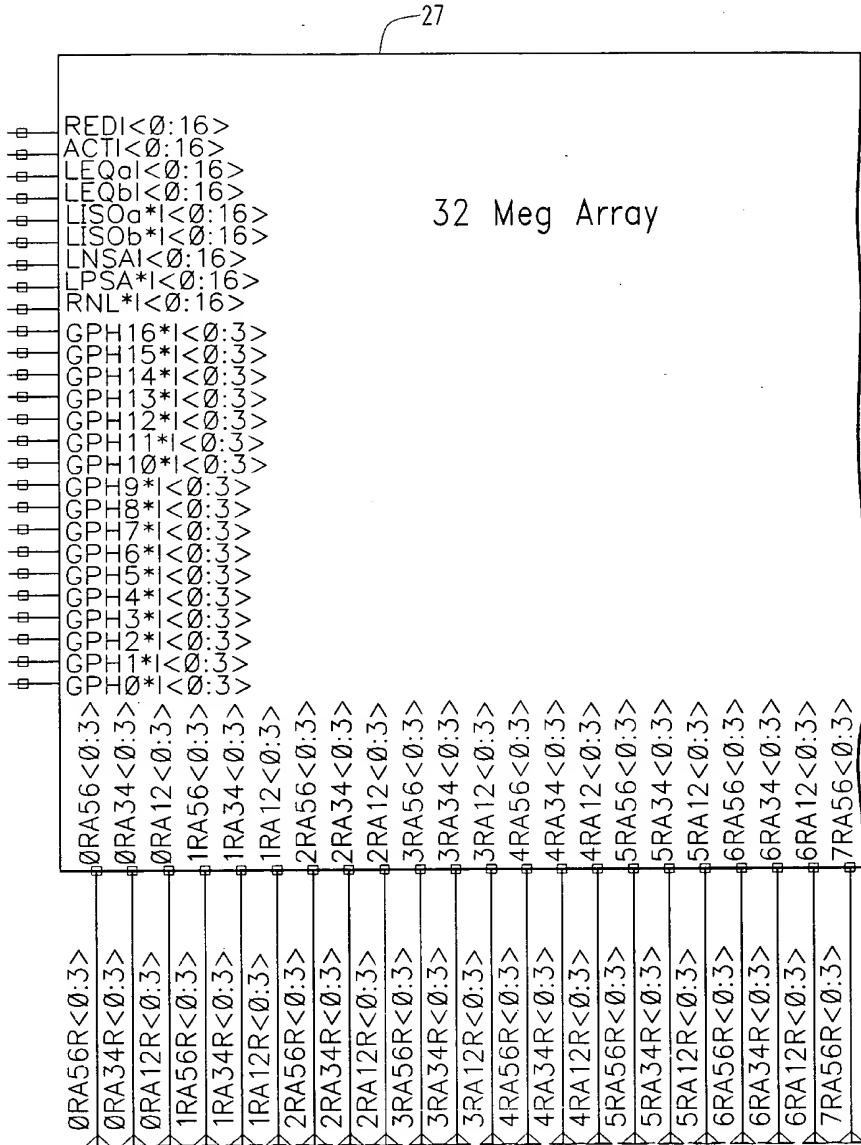
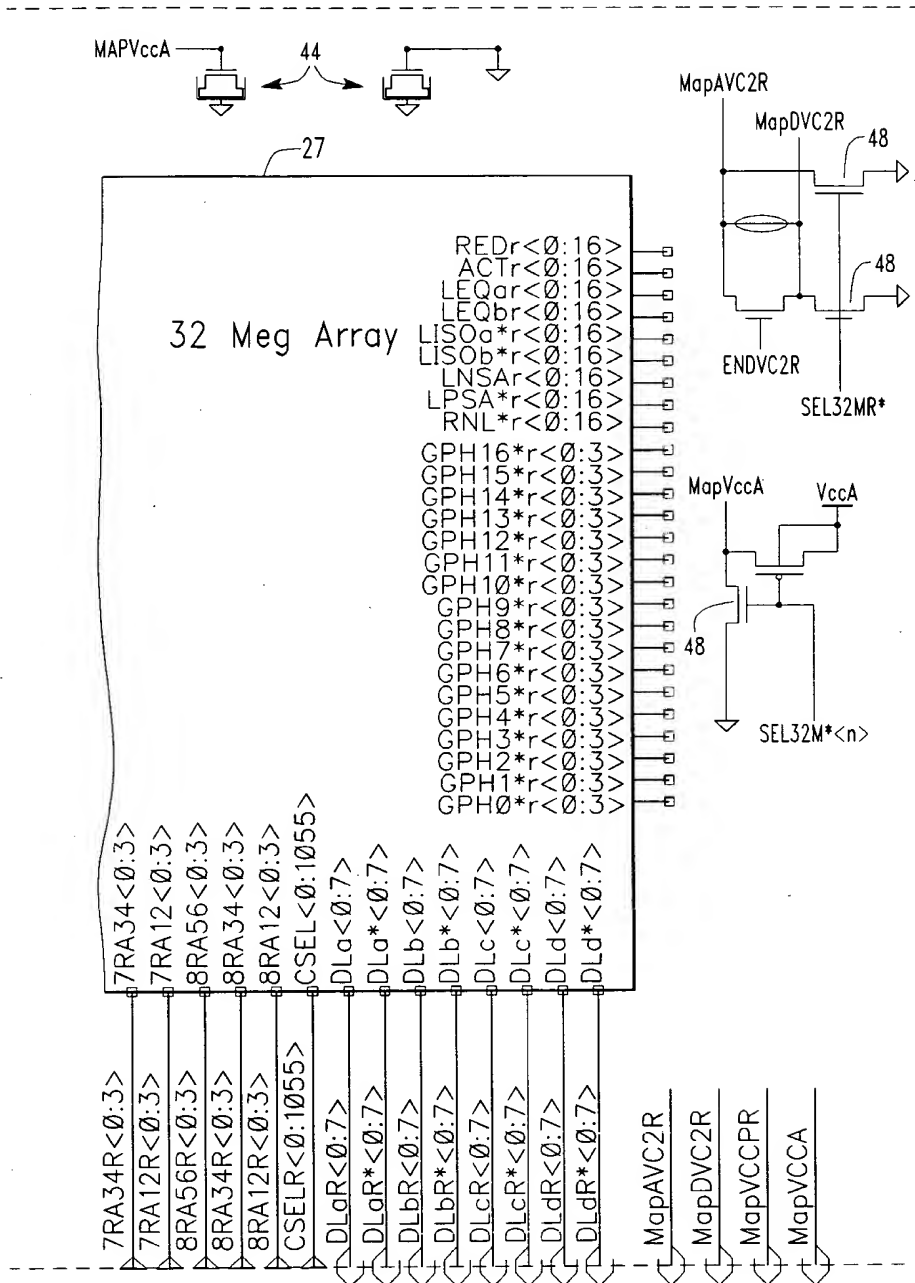


Figure	Figure	Figure	Figure
Figure 1	Figure 2	Figure 3	Figure 4
Figure 5	Figure 6	Figure 7	Figure 8
Figure 9	Figure 10	Figure 11	Figure 12
Figure 13	Figure 14	Figure 15	Figure 16
Figure 17	Figure 18	Figure 19	Figure 20
Figure 21	Figure 22	Figure 23	Figure 24
Figure 25	Figure 26	Figure 27	Figure 28
Figure 29	Figure 30	Figure 31	Figure 32
Figure 33	Figure 34	Figure 35	Figure 36
Figure 37	Figure 38	Figure 39	Figure 40
Figure 41	Figure 42	Figure 43	Figure 44
Figure 45	Figure 46	Figure 47	Figure 48
Figure 49	Figure 50	Figure 51	Figure 52
Figure 53	Figure 54	Figure 55	Figure 56
Figure 57	Figure 58	Figure 59	Figure 60
Figure 61	Figure 62	Figure 63	Figure 64
Figure 65	Figure 66	Figure 67	Figure 68
Figure 69	Figure 70	Figure 71	Figure 72
Figure 73	Figure 74	Figure 75	Figure 76
Figure 77	Figure 78	Figure 79	Figure 80
Figure 81	Figure 82	Figure 83	Figure 84
Figure 85	Figure 86	Figure 87	Figure 88
Figure 89	Figure 90	Figure 91	Figure 92
Figure 93	Figure 94	Figure 95	Figure 96
Figure 97	Figure 98	Figure 99	Figure 100



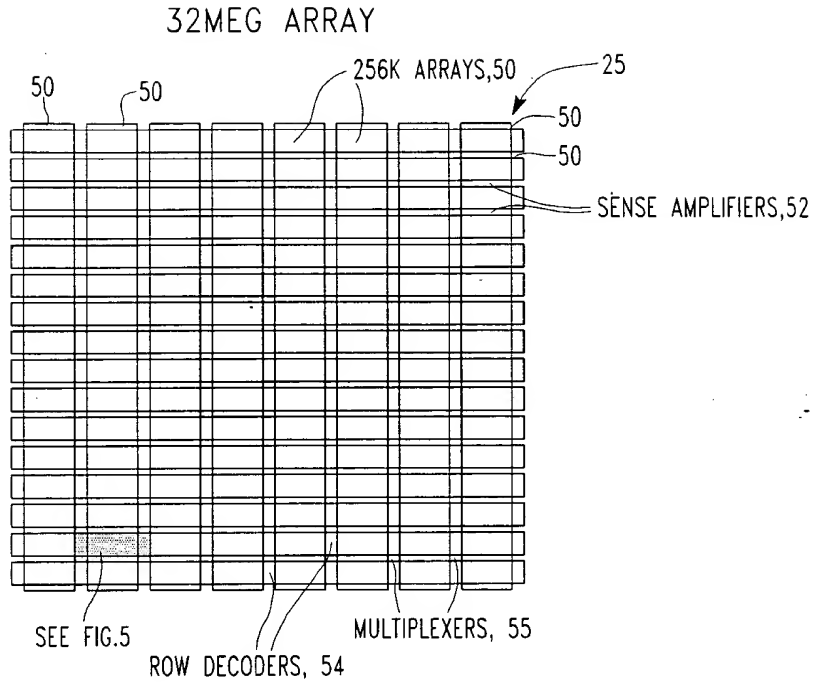


FIG. 4

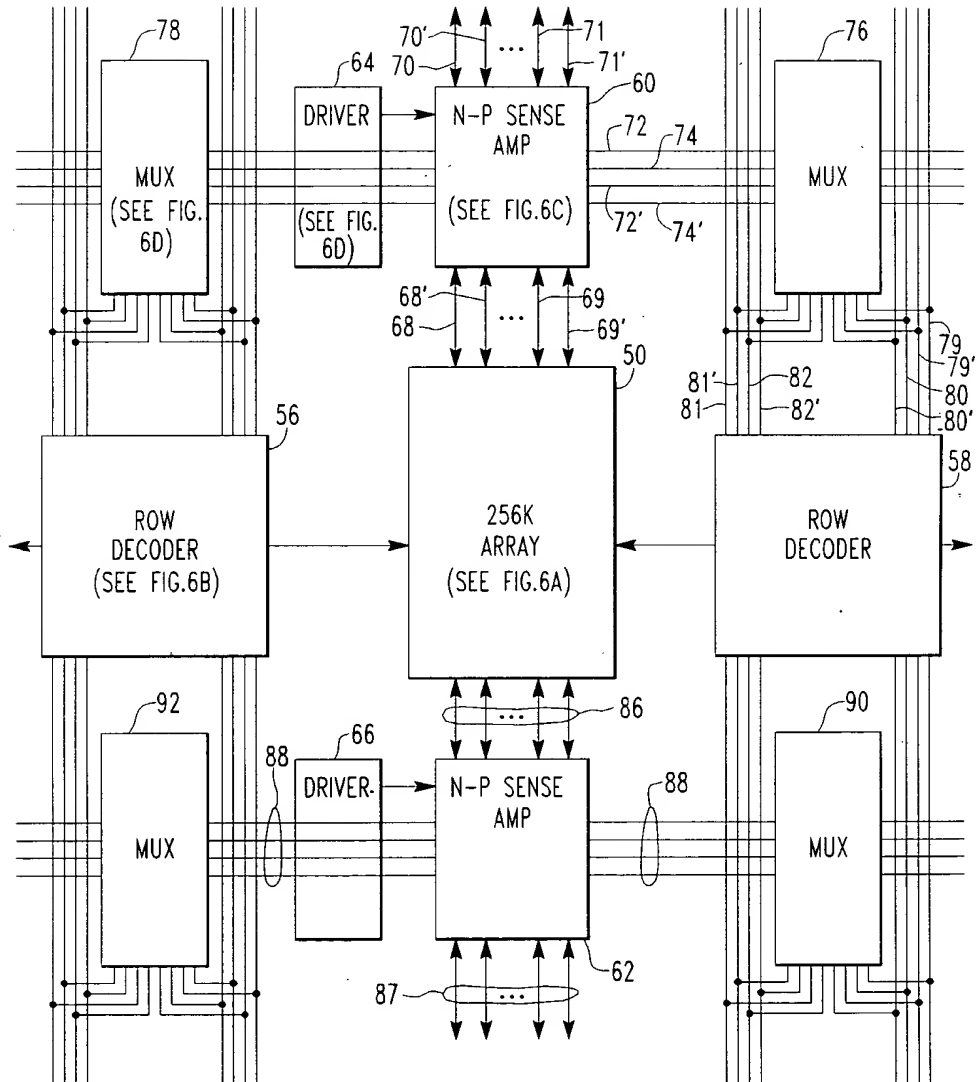


FIG. 5

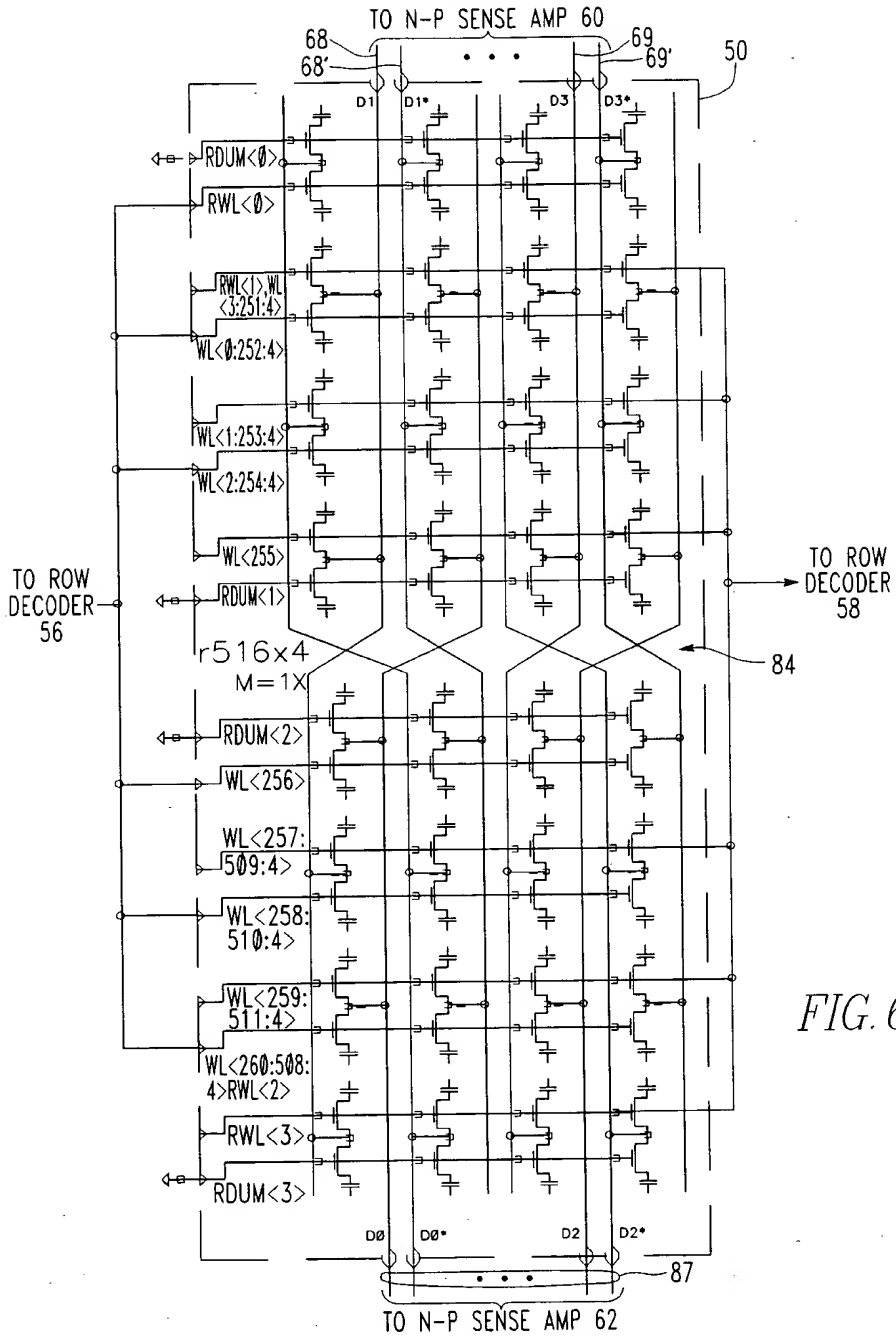
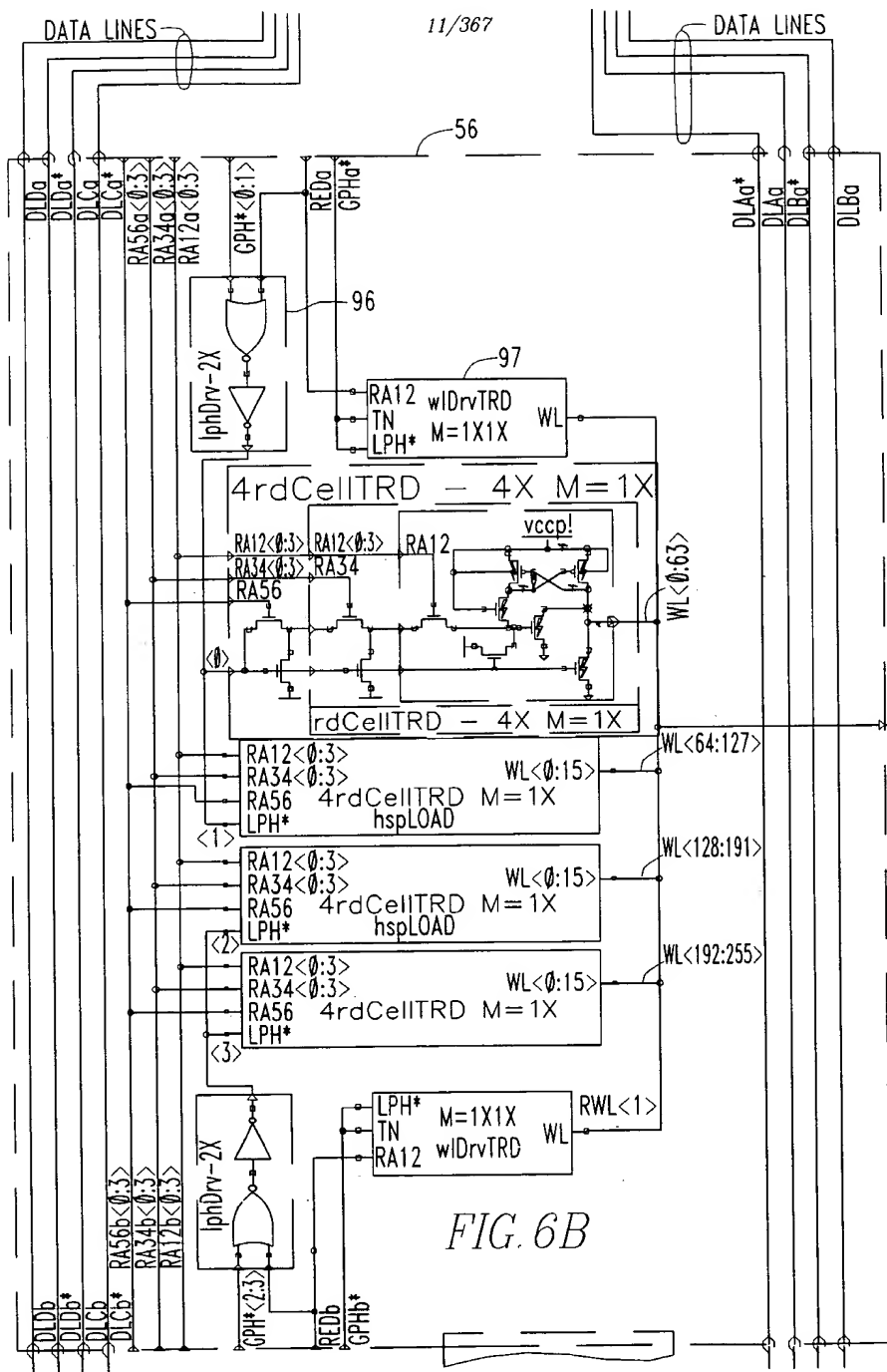


FIG. 6A

FIG. 6B



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Connections of odd/even
columns to IOa and IOb
alternates with odd/even
column select lines:
CA01* D1(even) D2(odd)

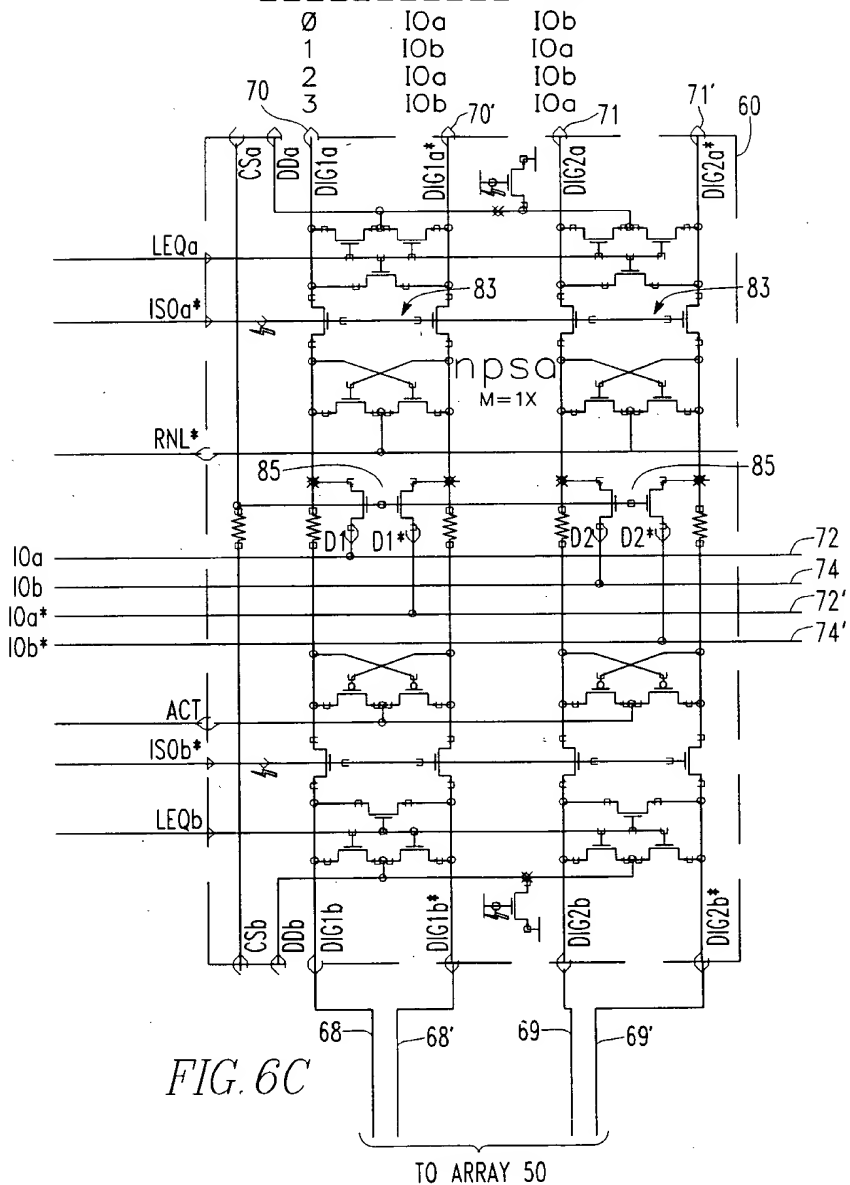
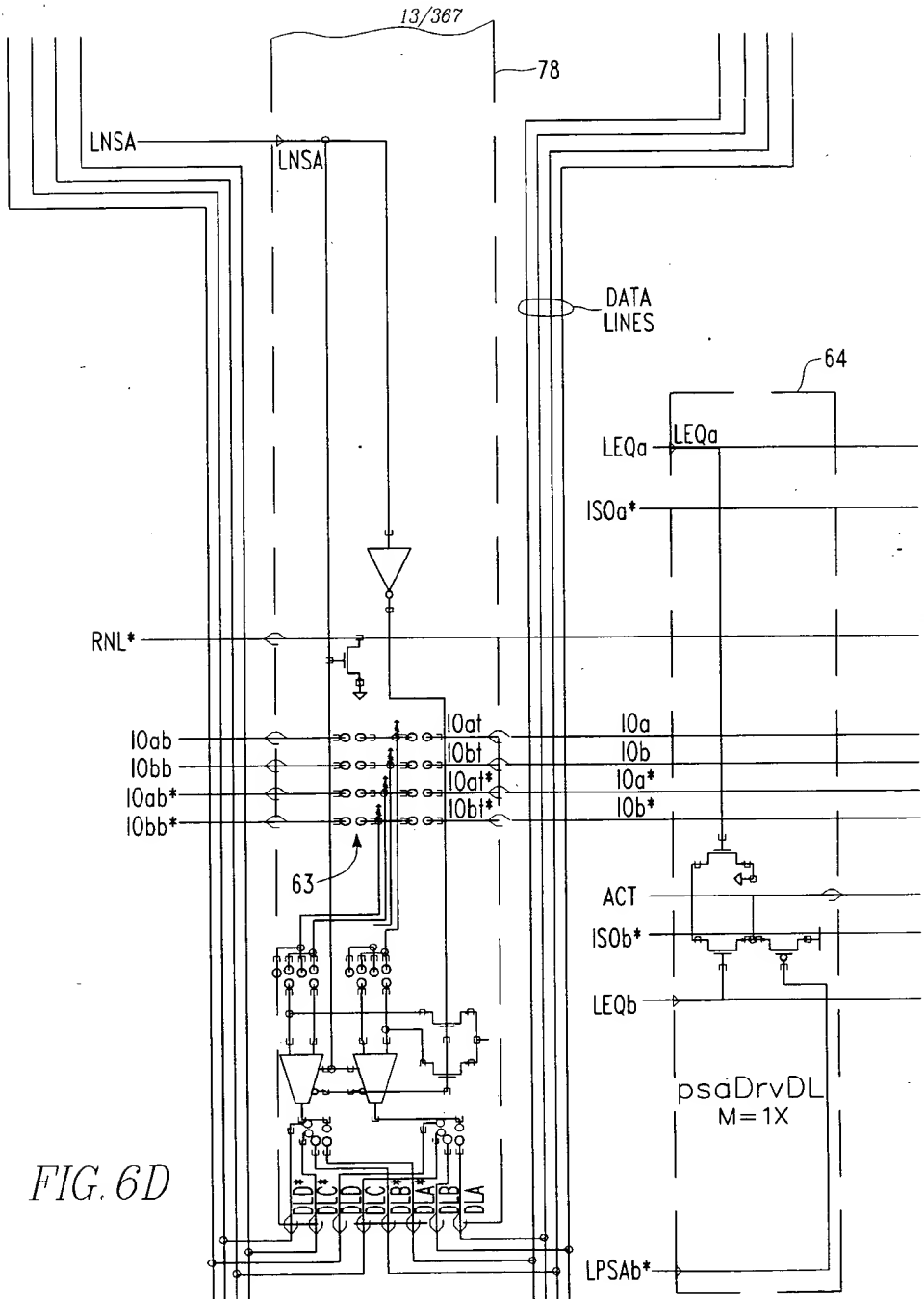


FIG. 6C



25

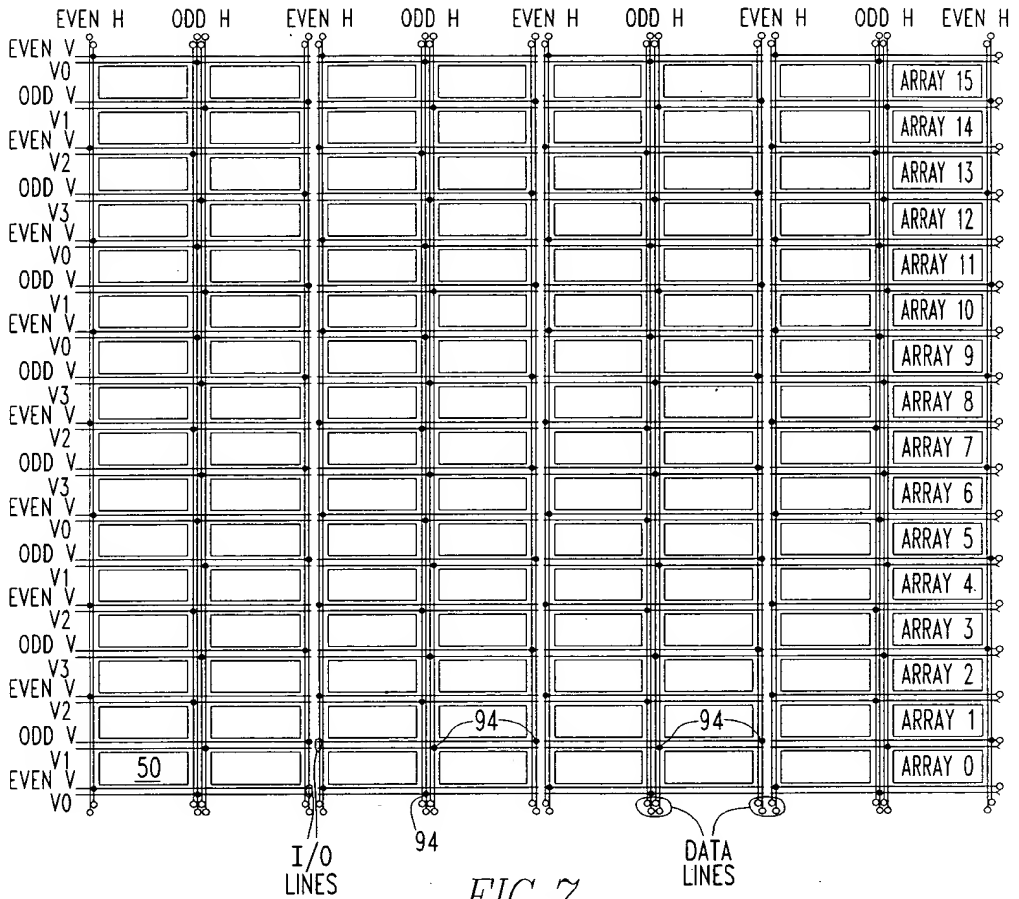


FIG. 7

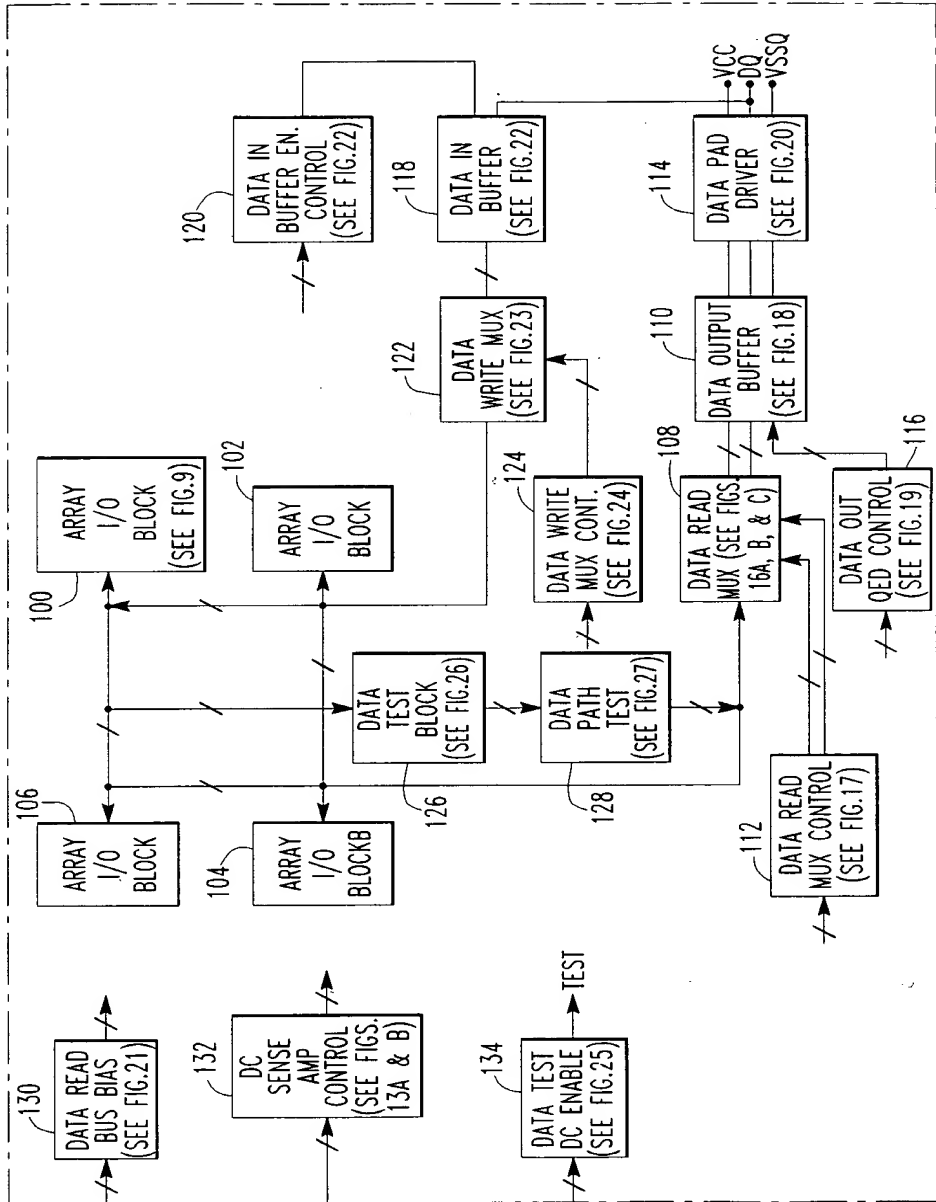


FIG. 8

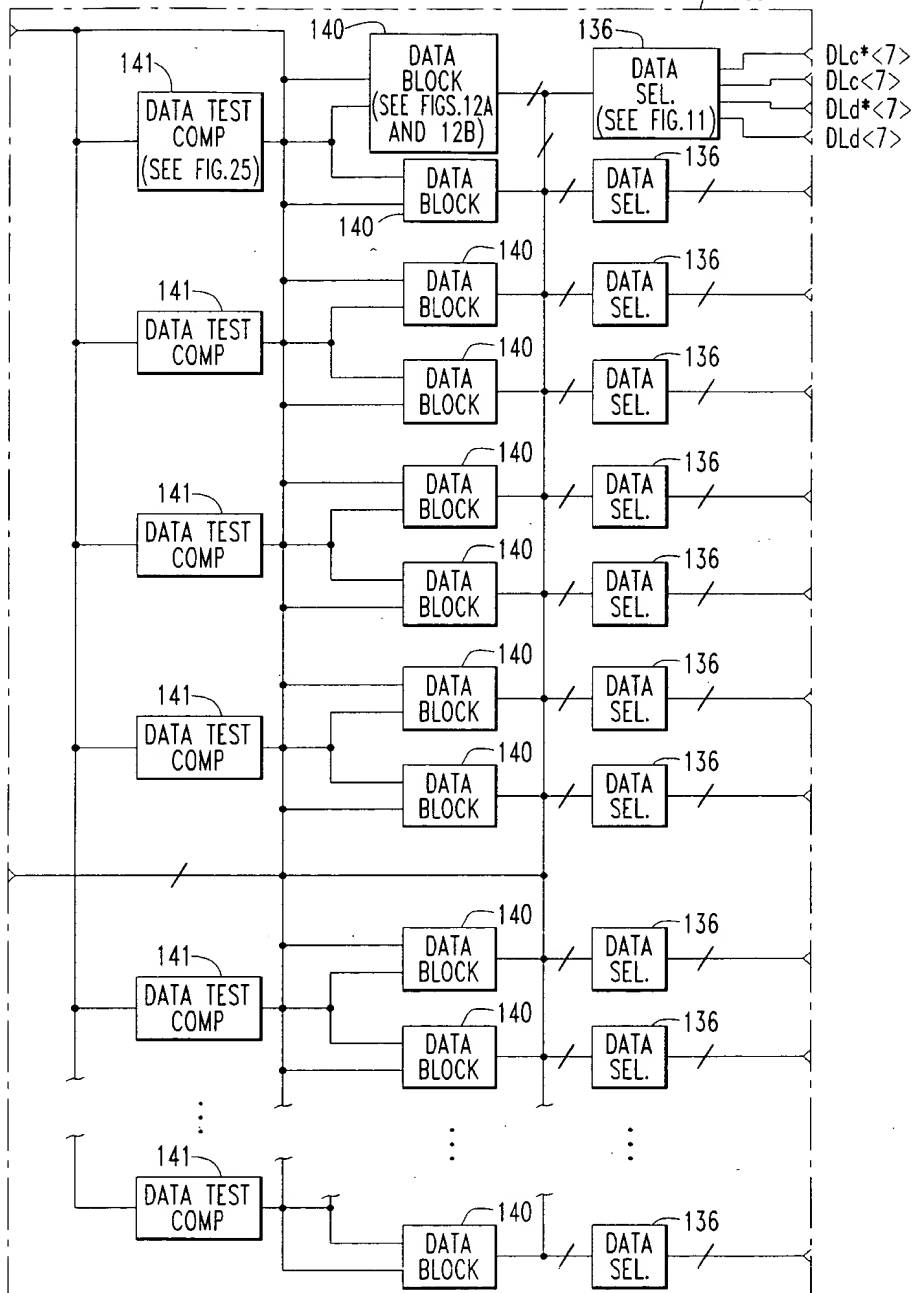


FIG. 9

000132 020001

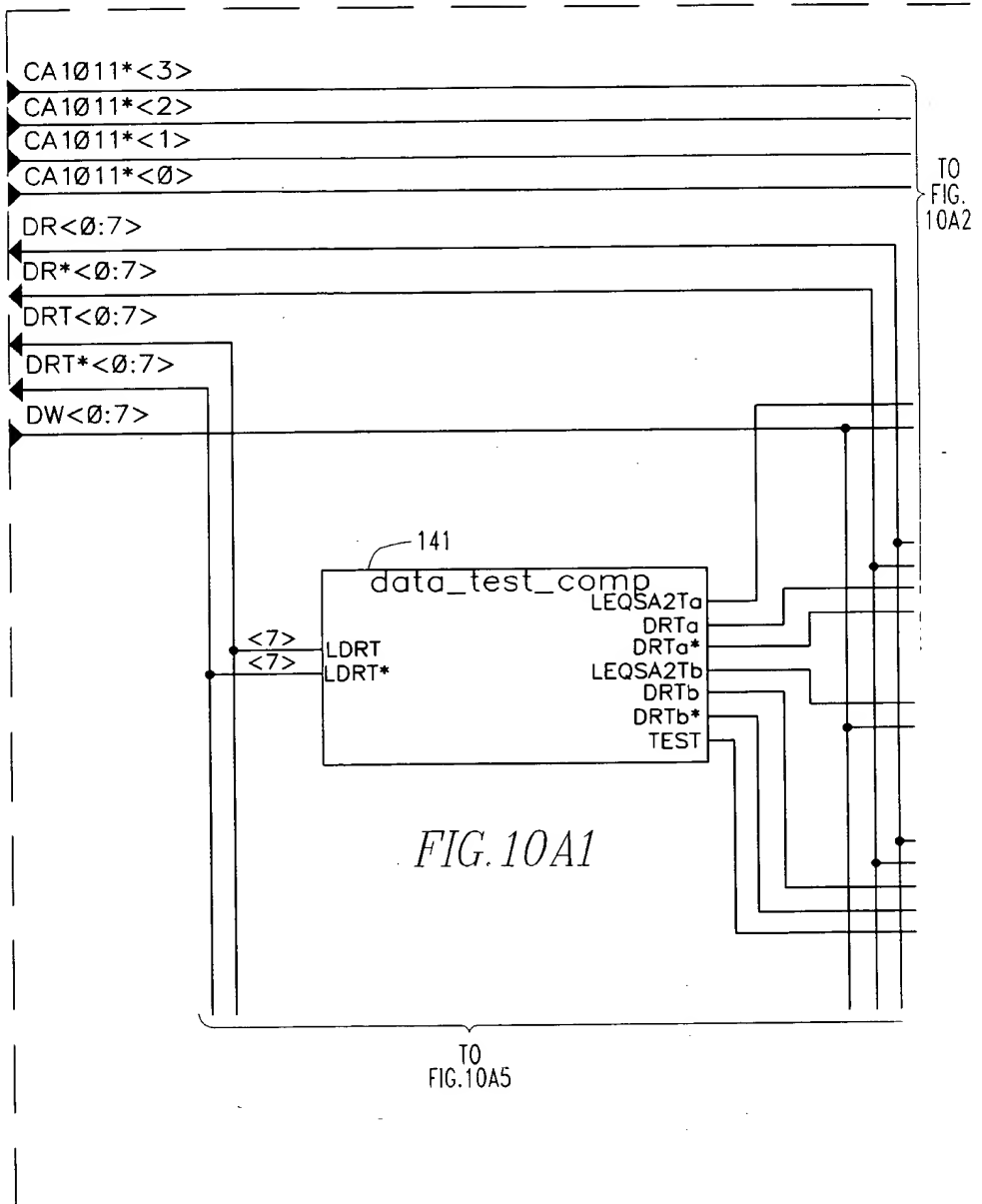


FIG. 10A2

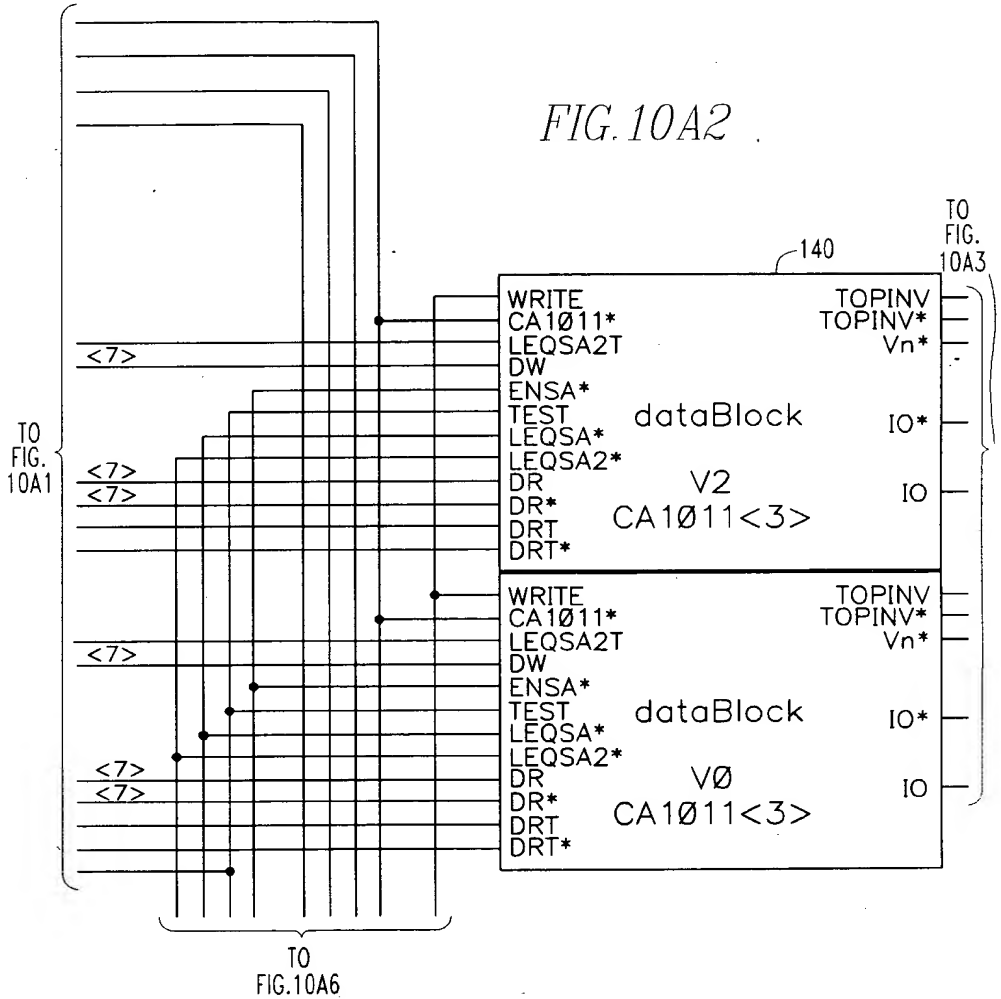
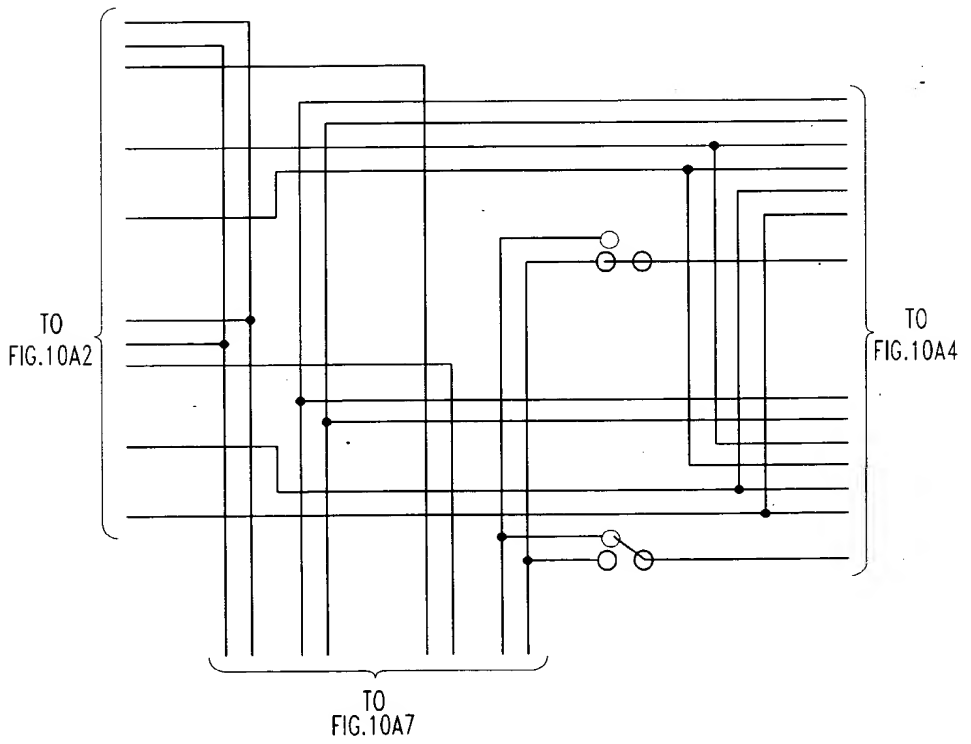


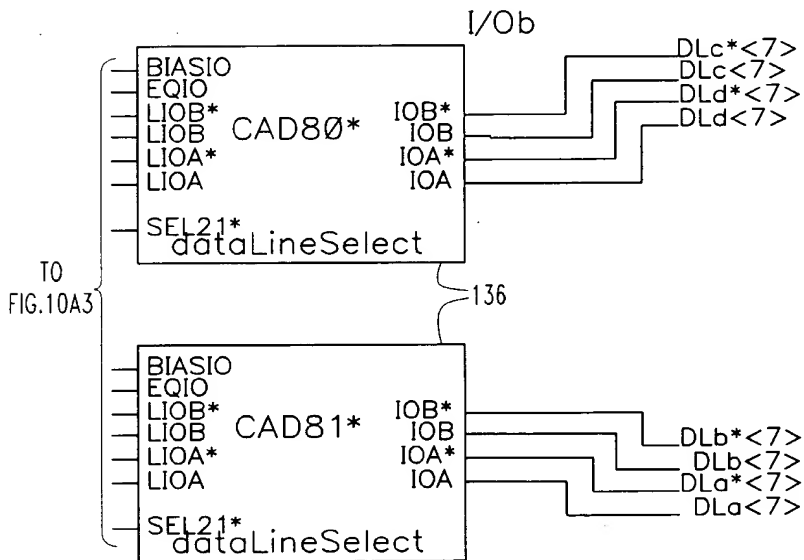
FIG. 10A3



arrayIOBlock

100

FIG. 10A4



00001628 030001

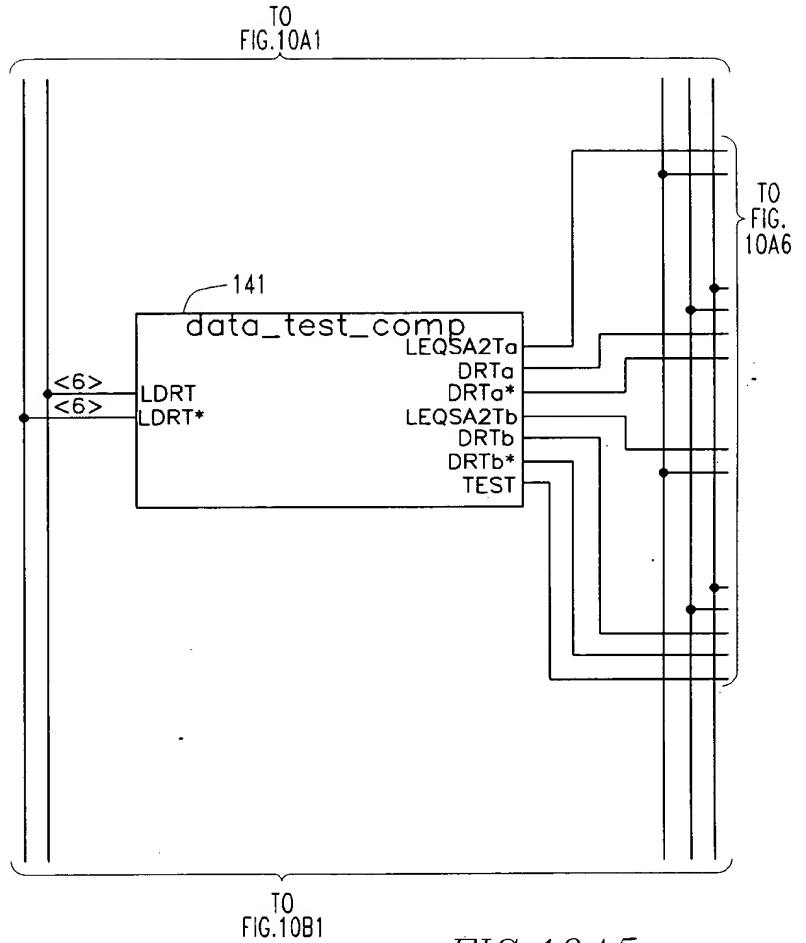


FIG.10A5

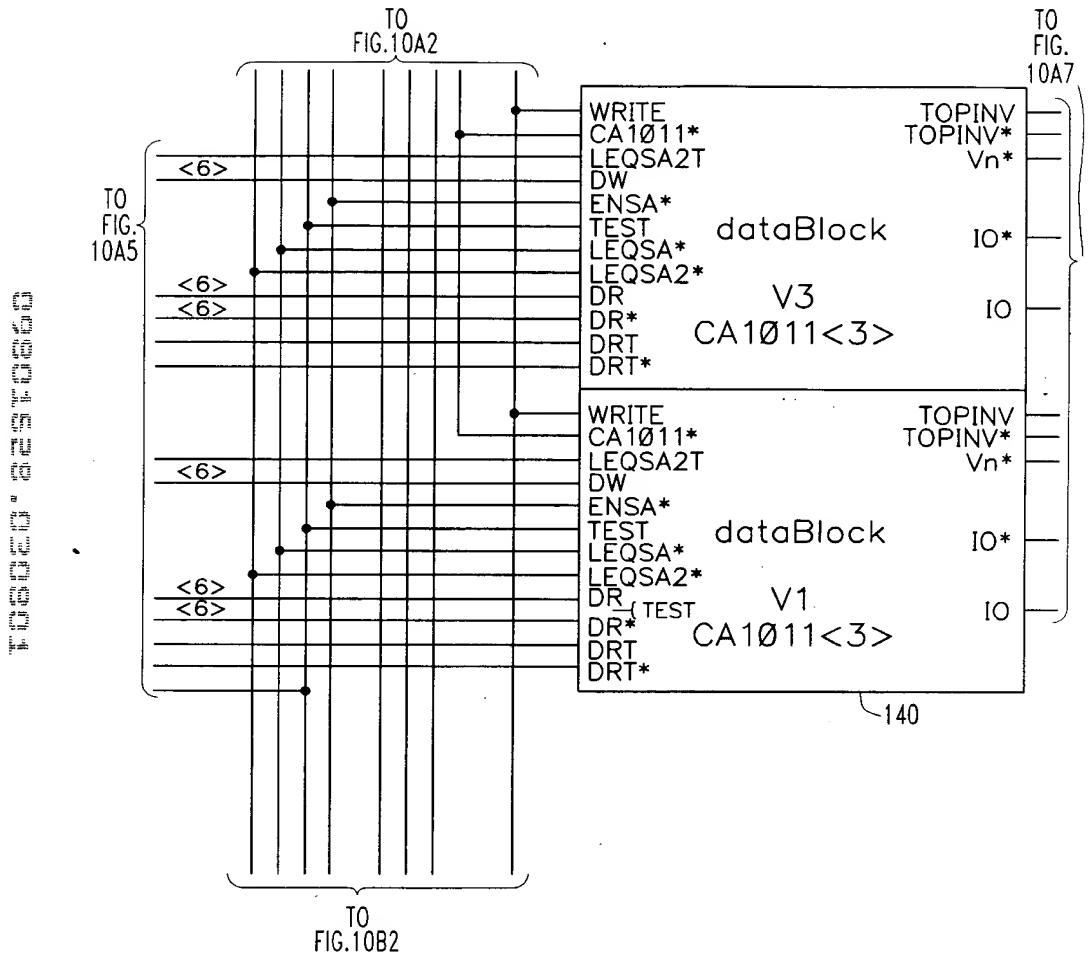


FIG. 10A6

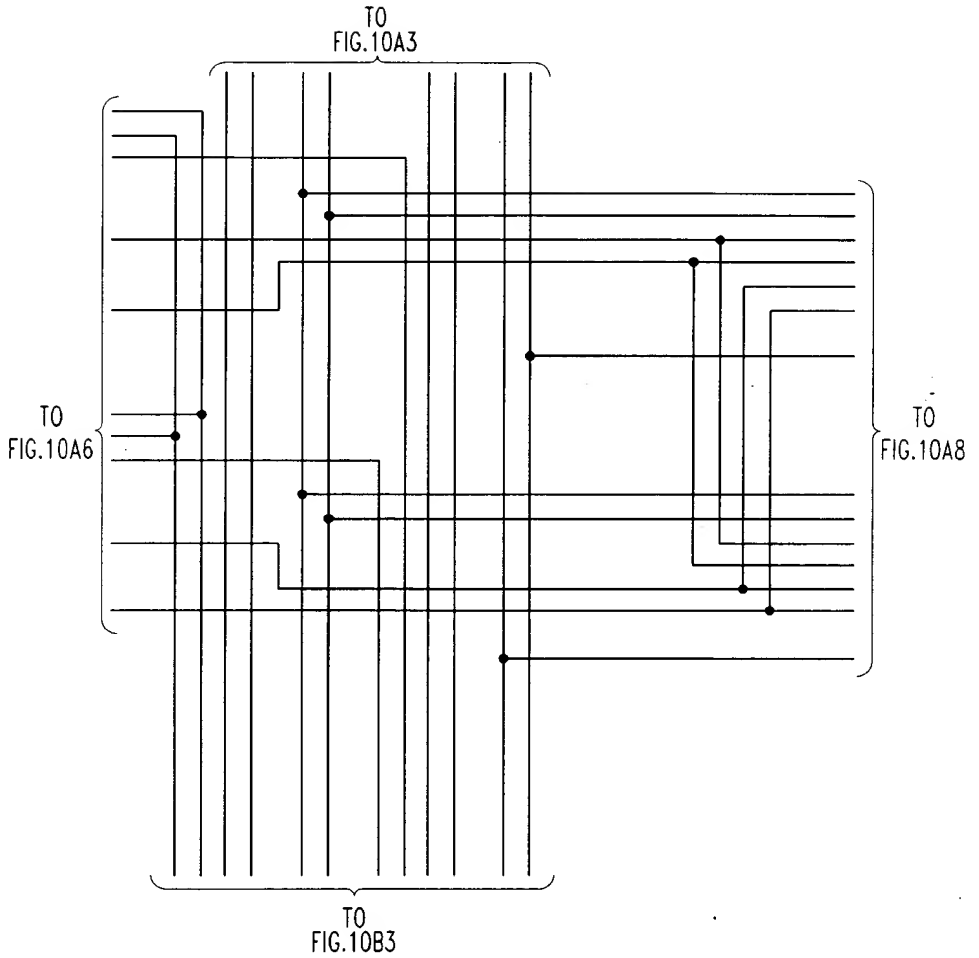


FIG. 10A7

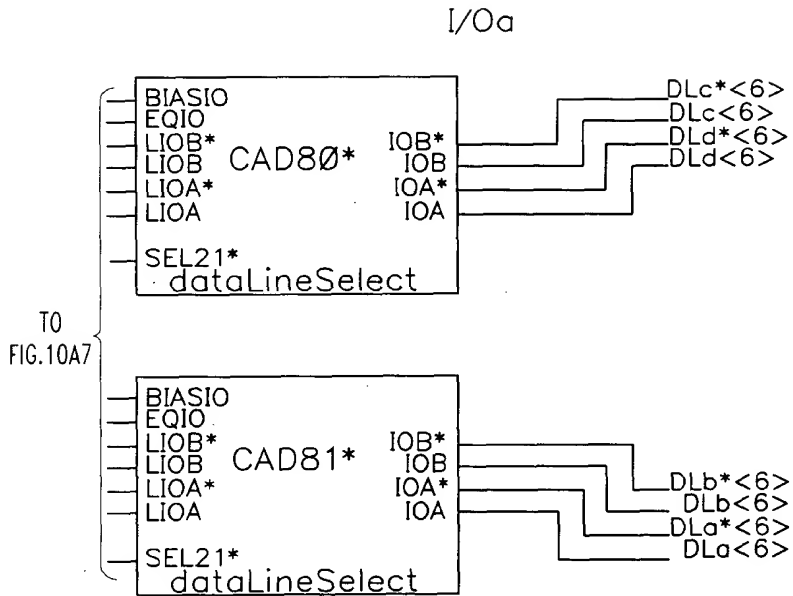


FIG. 10A8

0001529.00001

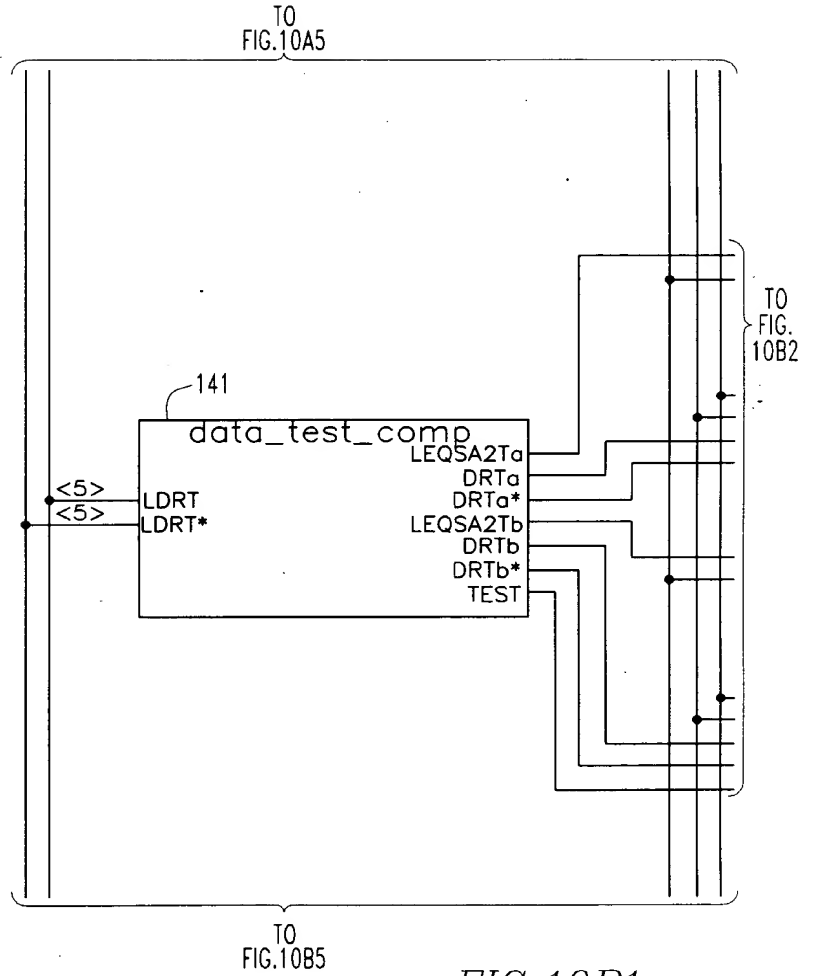


FIG.10B1

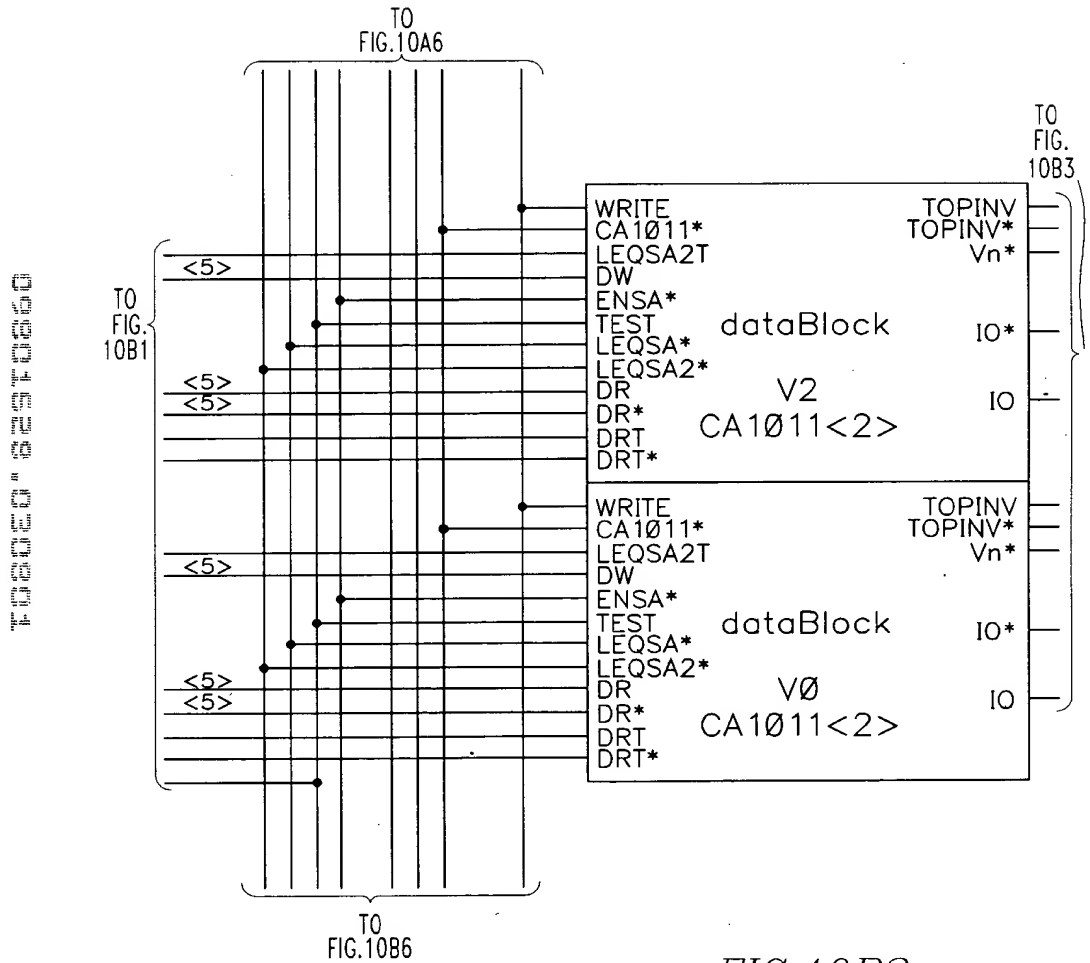


FIG. 10B2

FIG. 10B3

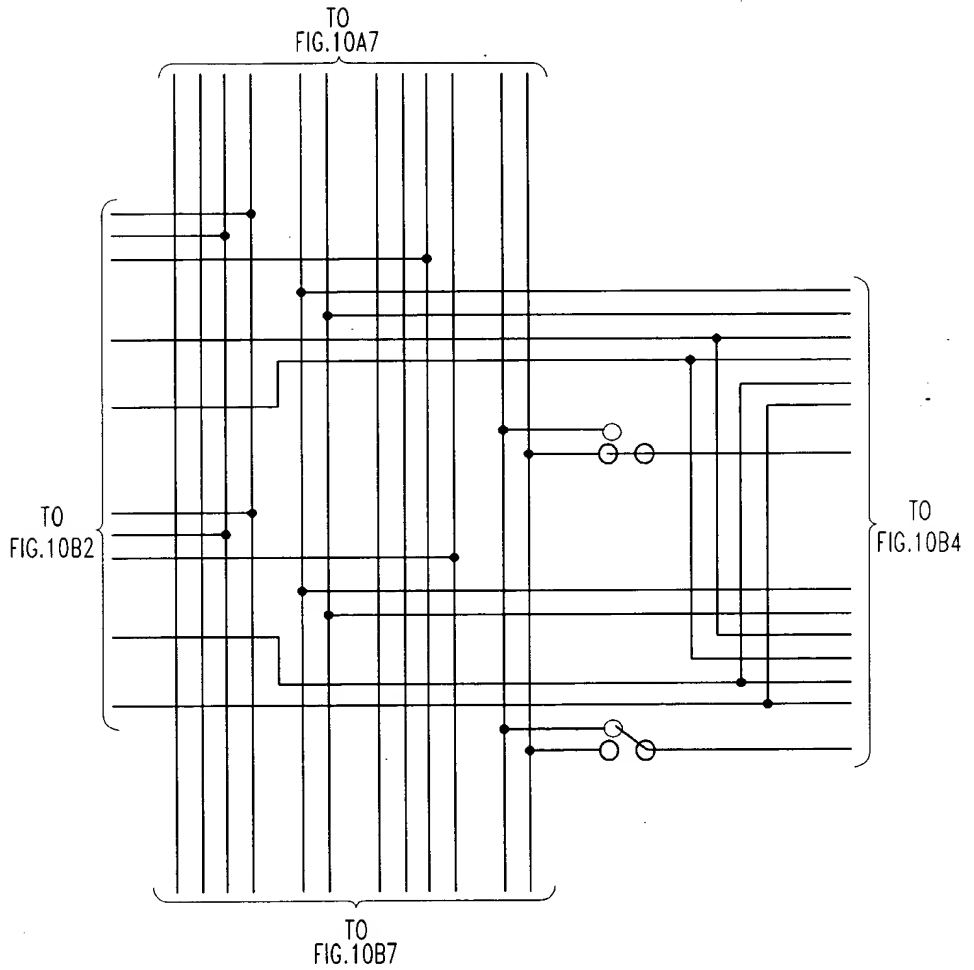


FIG. 10B3

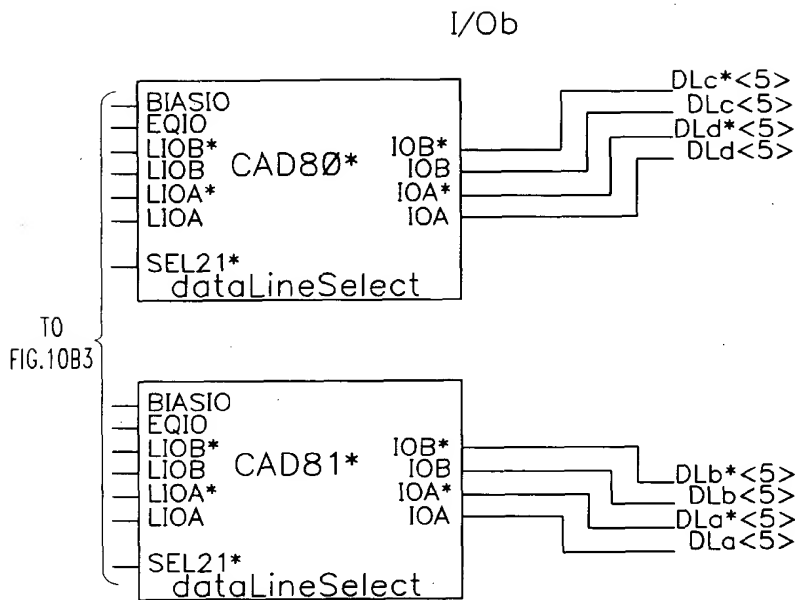


FIG. 10B4

FIG. 10B5

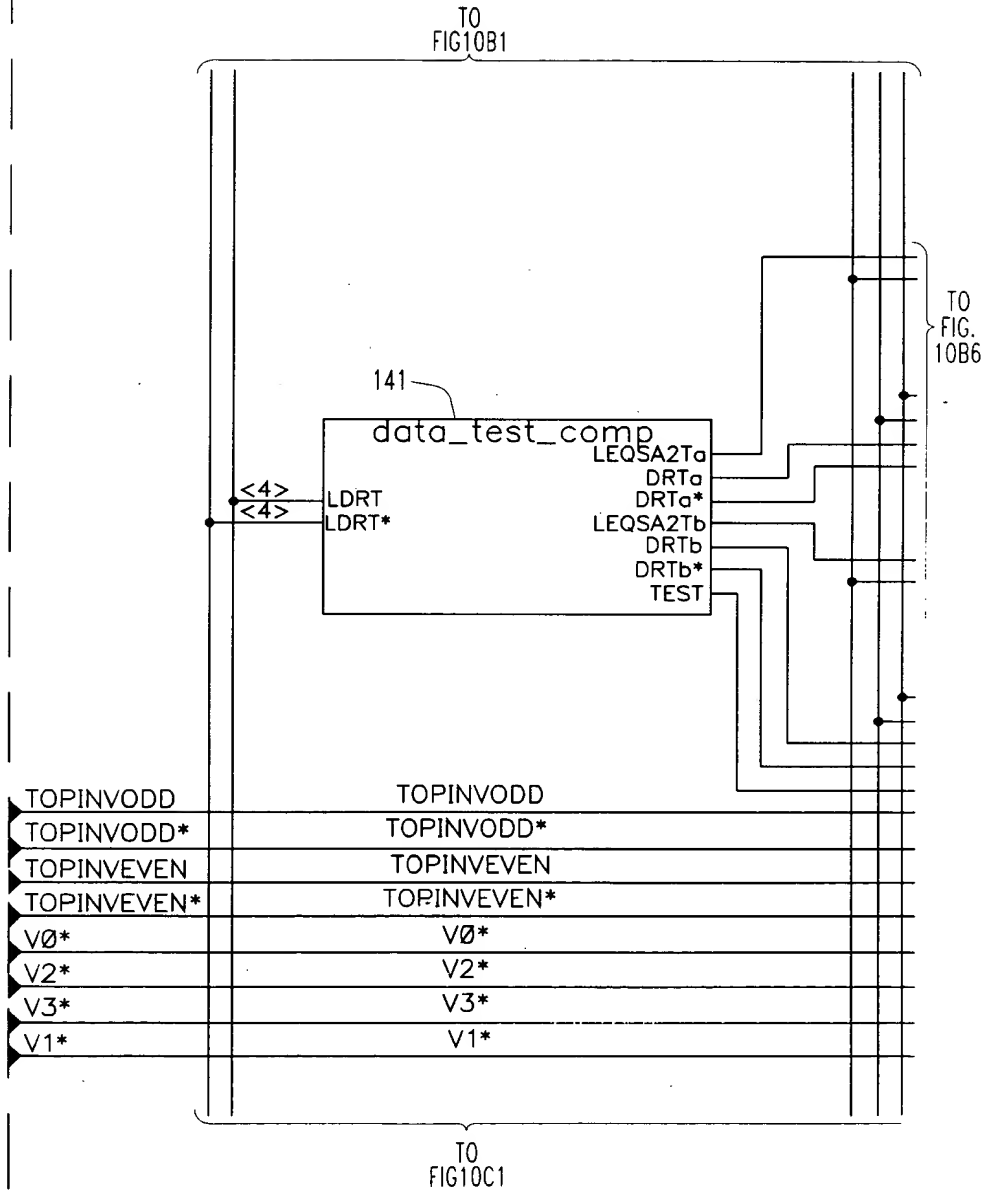


FIG. 10B6

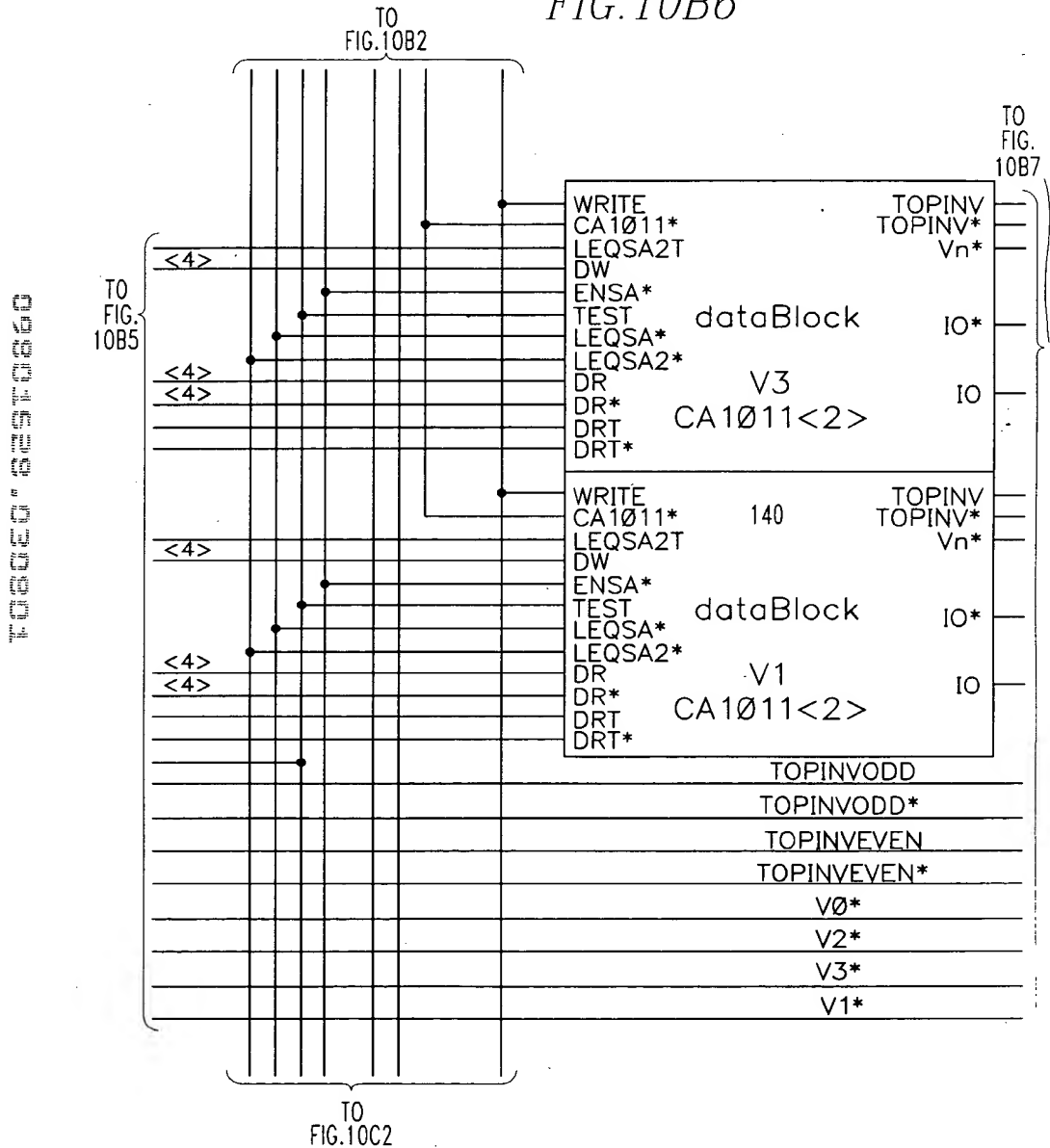
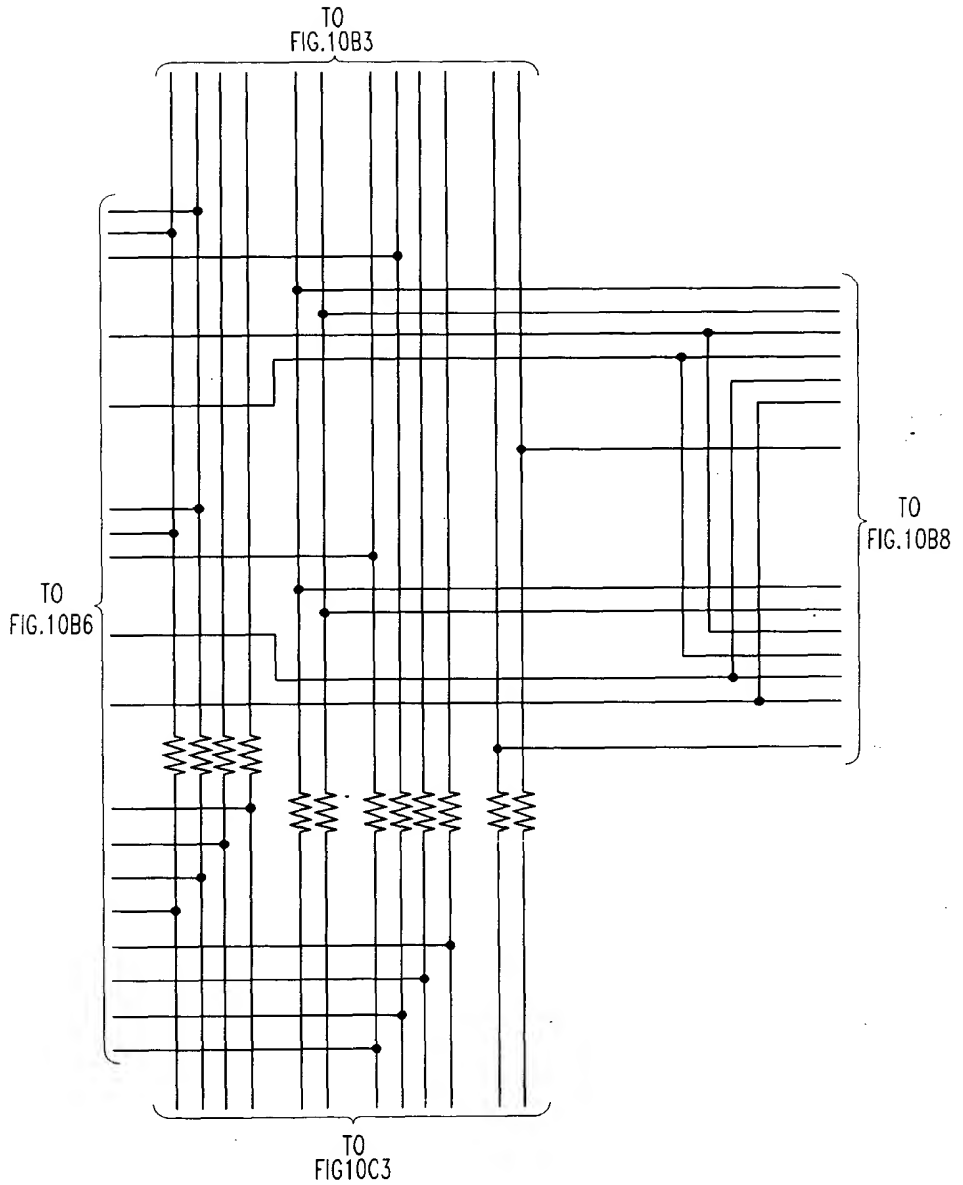
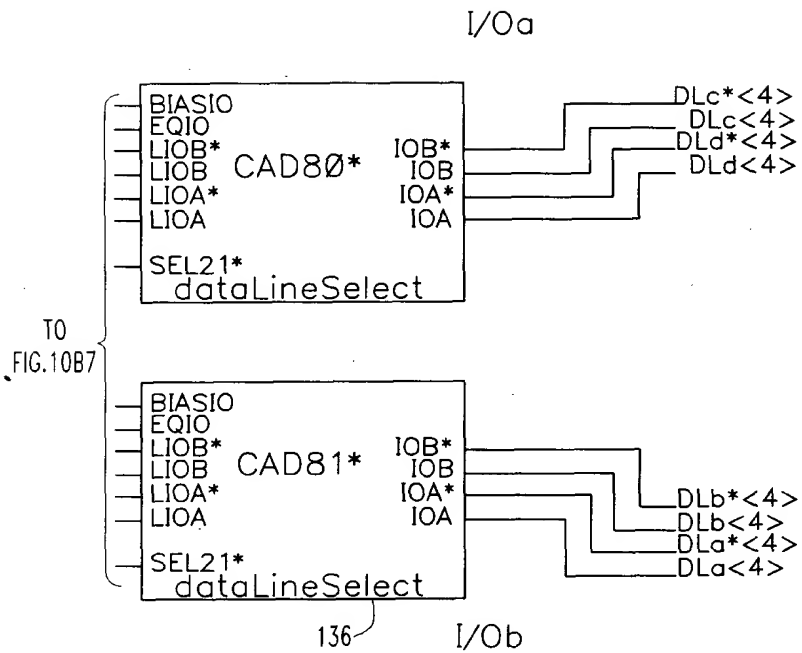


FIG. 10B7



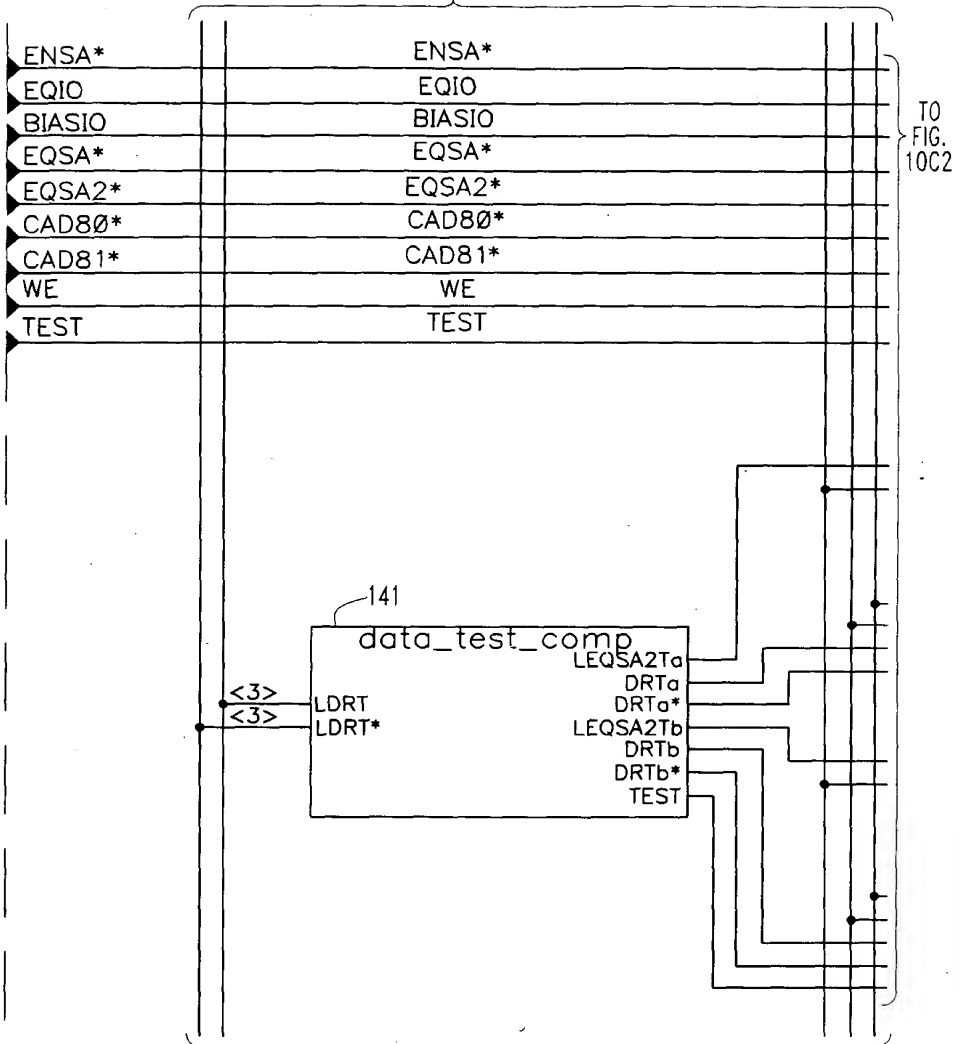
00001530-030004

FIG. 10B8



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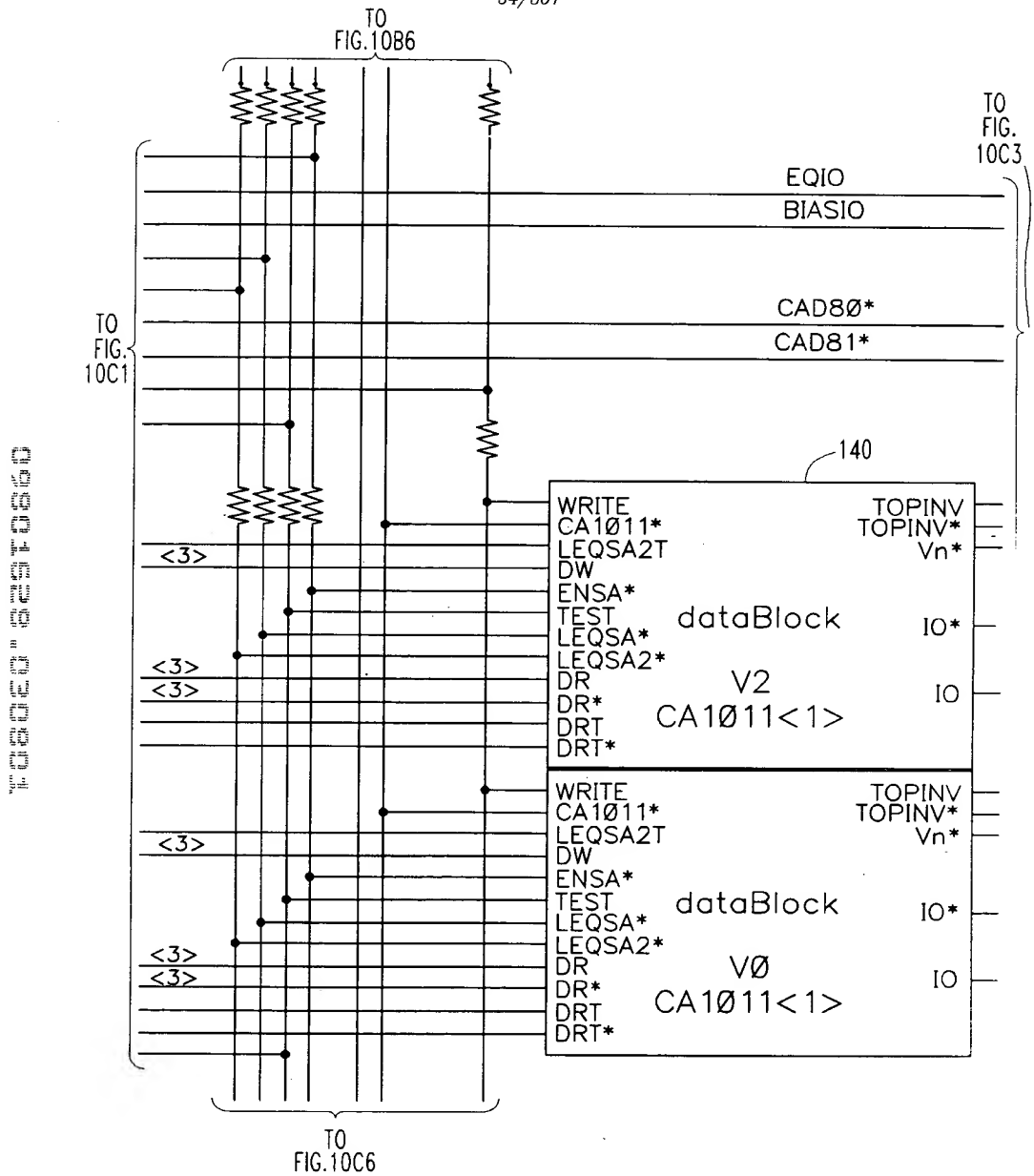
TO
FIG. 10B5

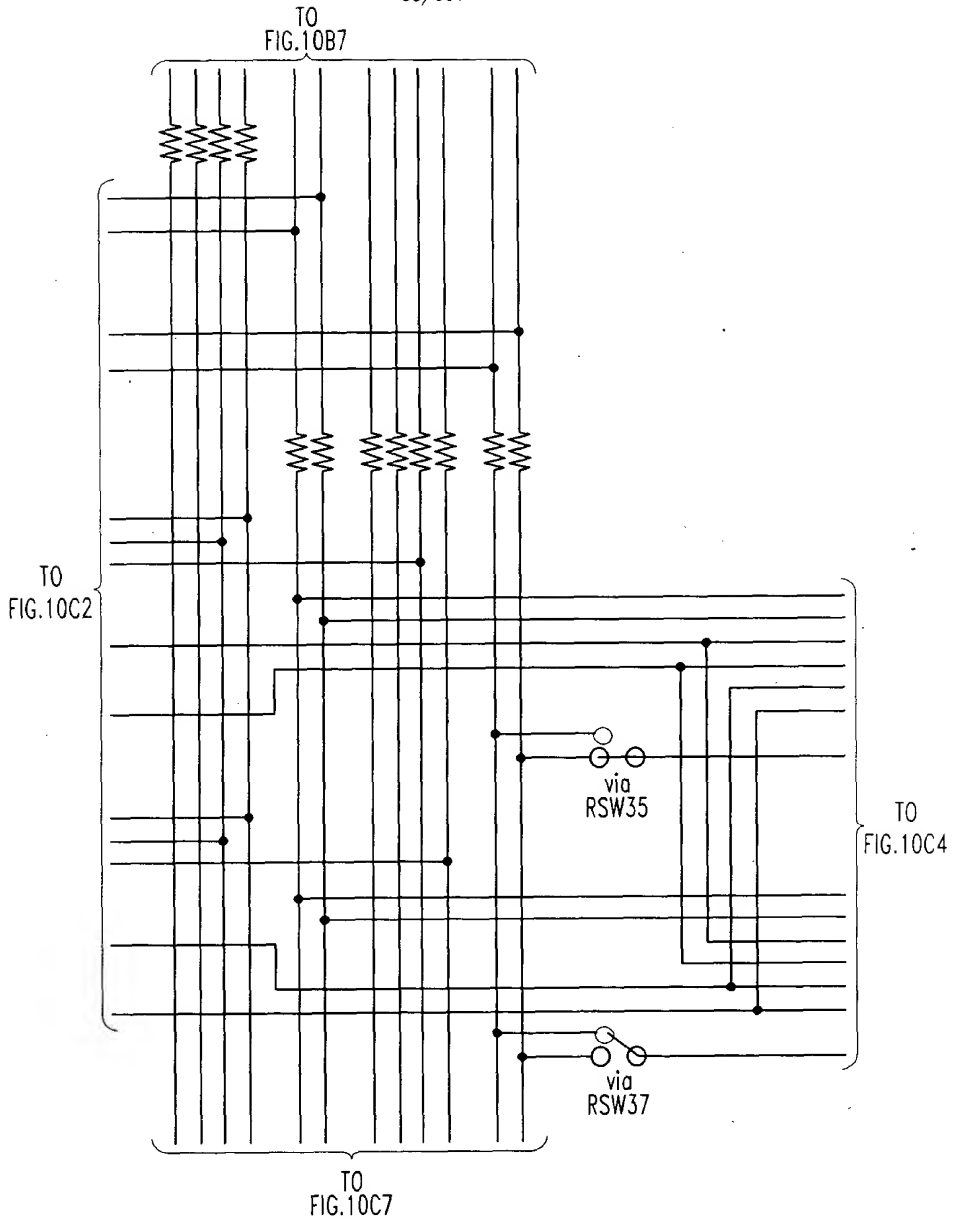


TO
FIG. 10C5

FIG. 10C1

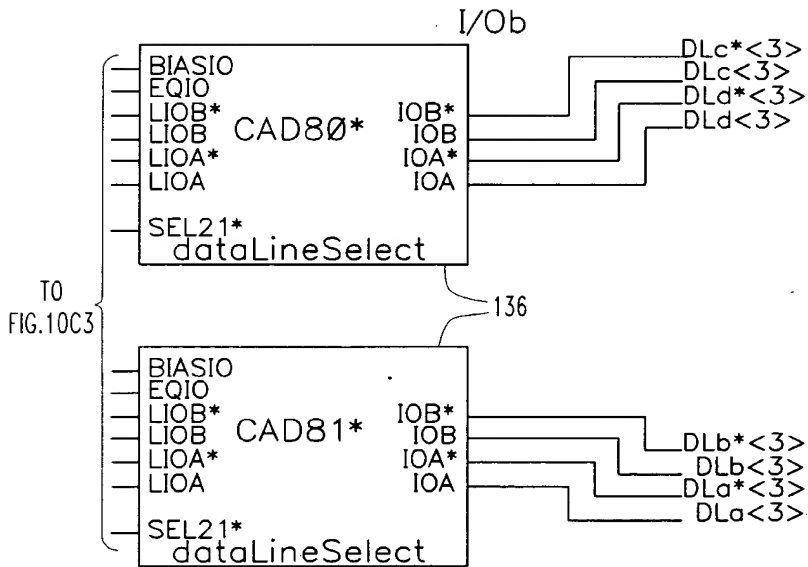
FIG. 10C1





00001528 000001

FIG. 10C4



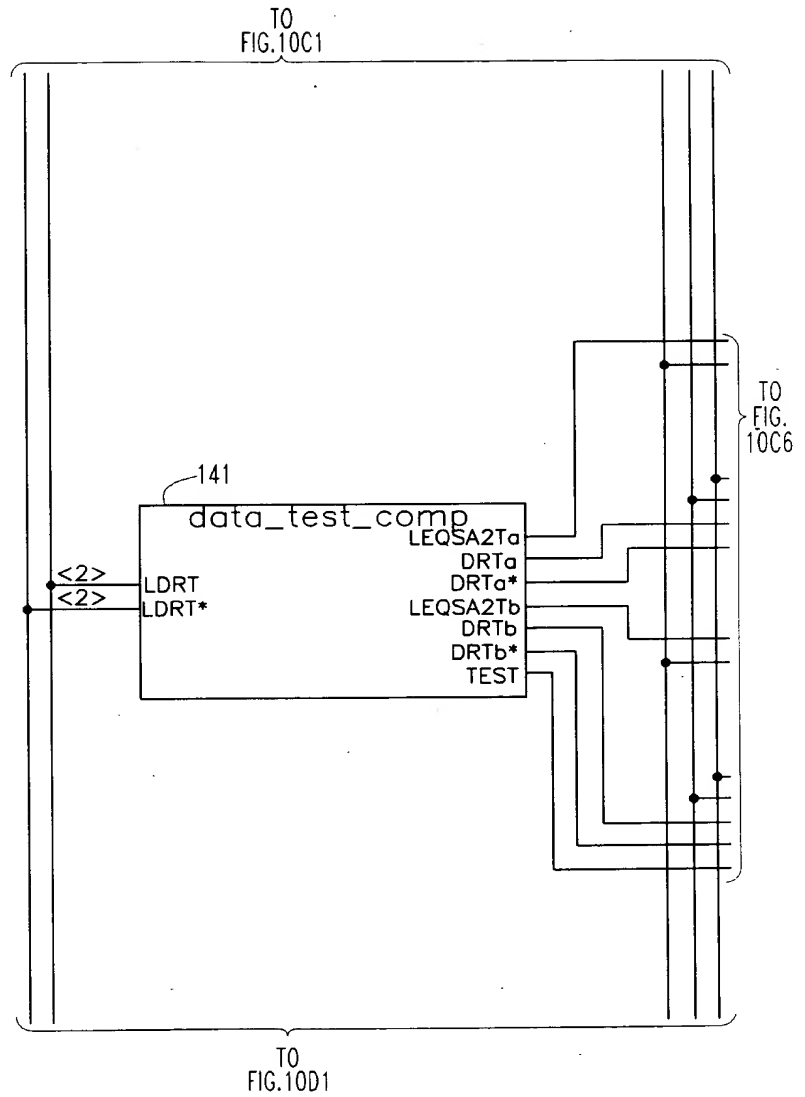


FIG.10C5

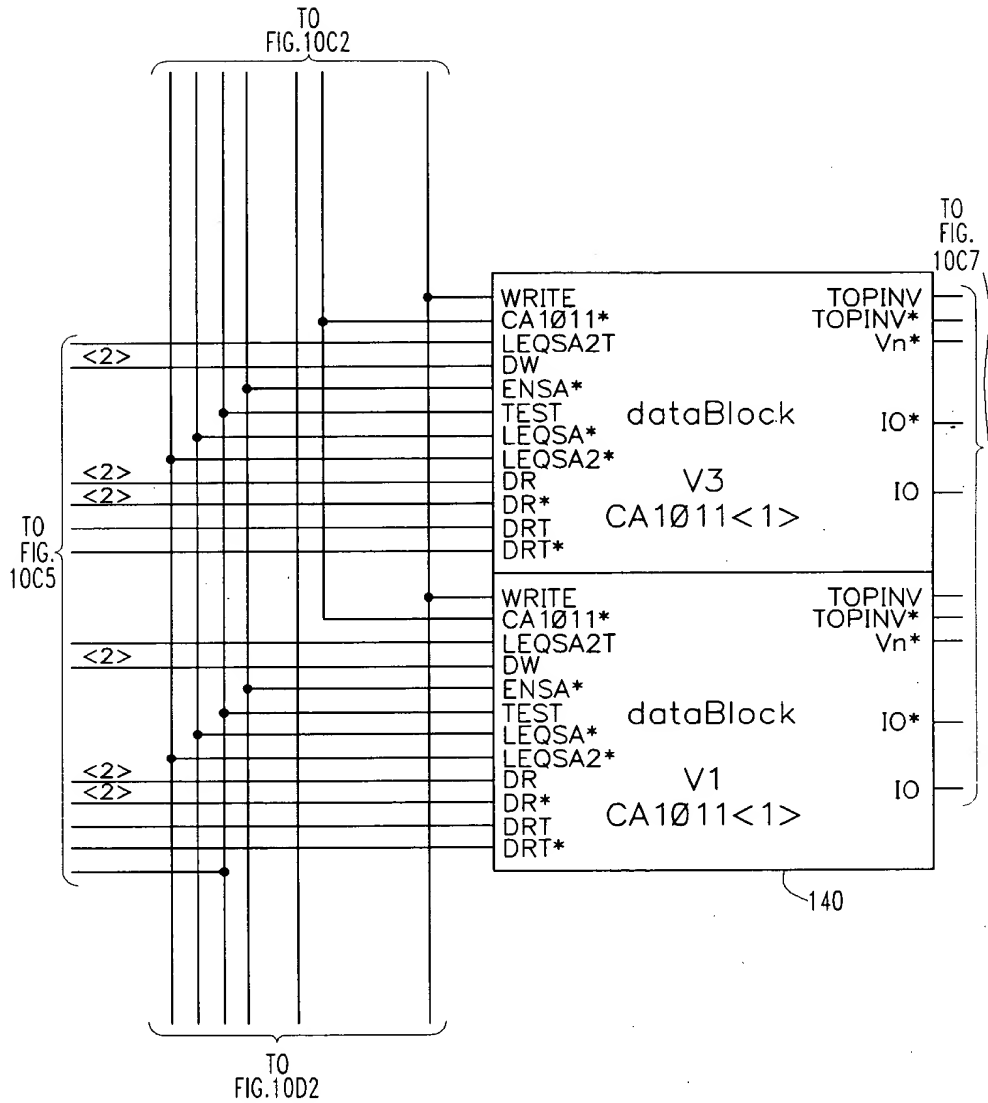


FIG. 10C6

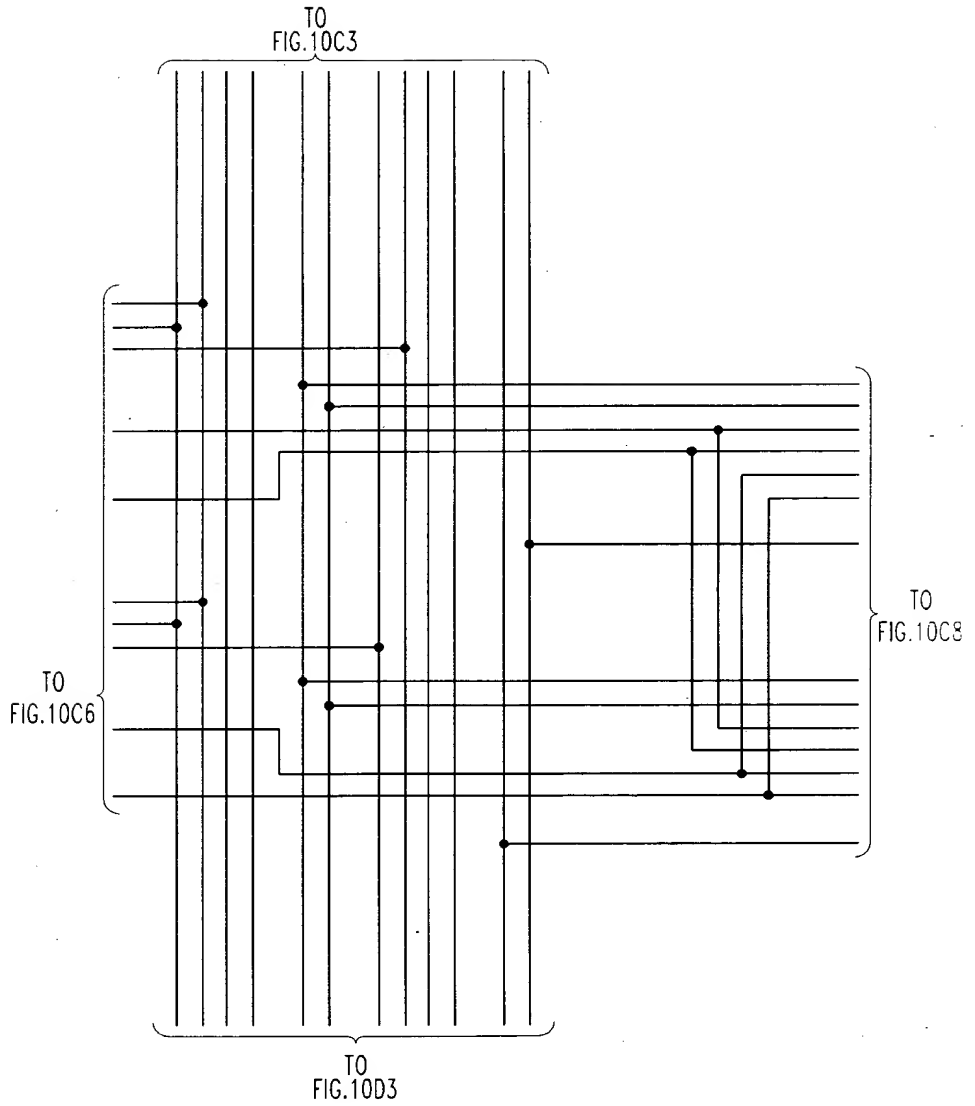


FIG. 10C7

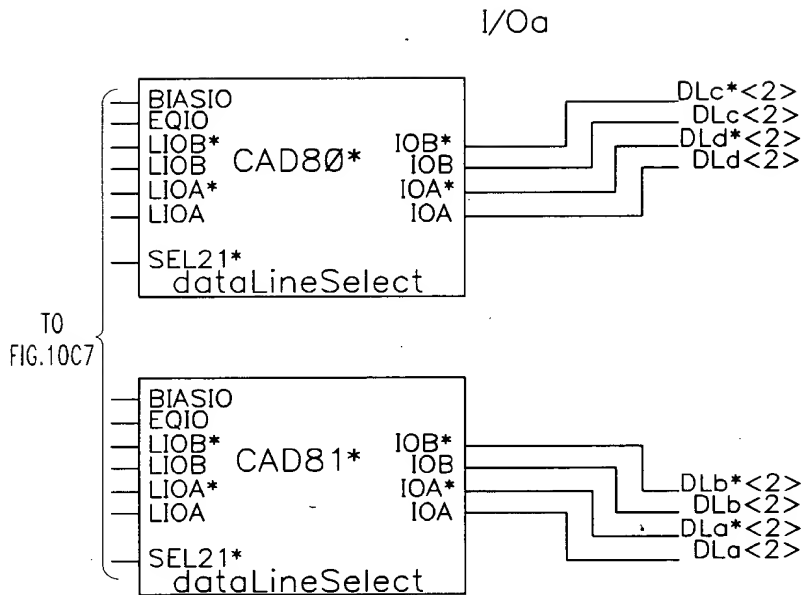
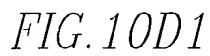


FIG. 10C8



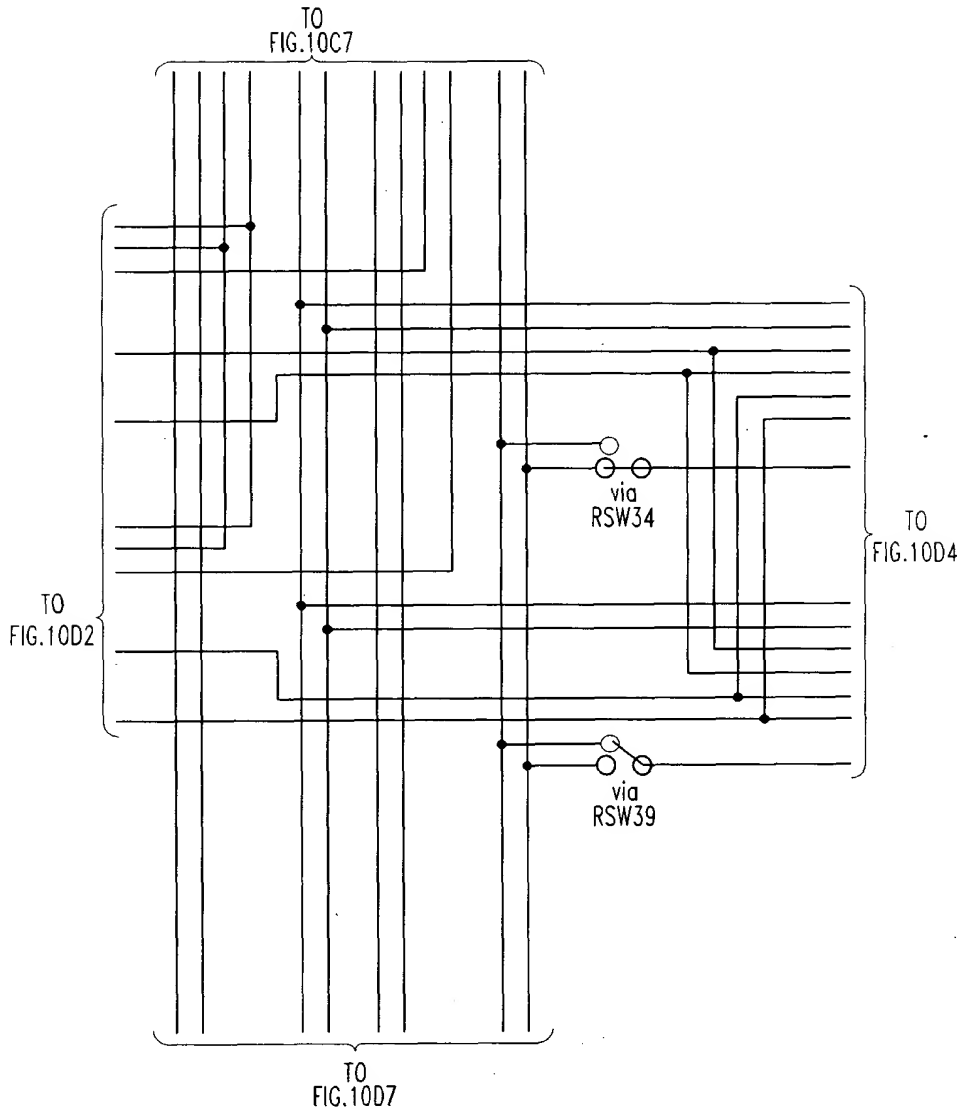


FIG. 10D3

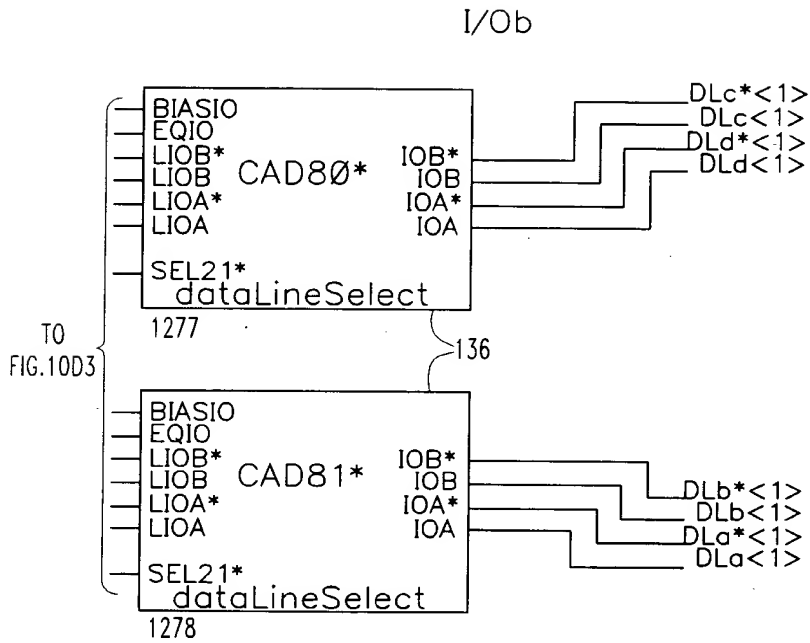


FIG.10D4

FIG. 10D5

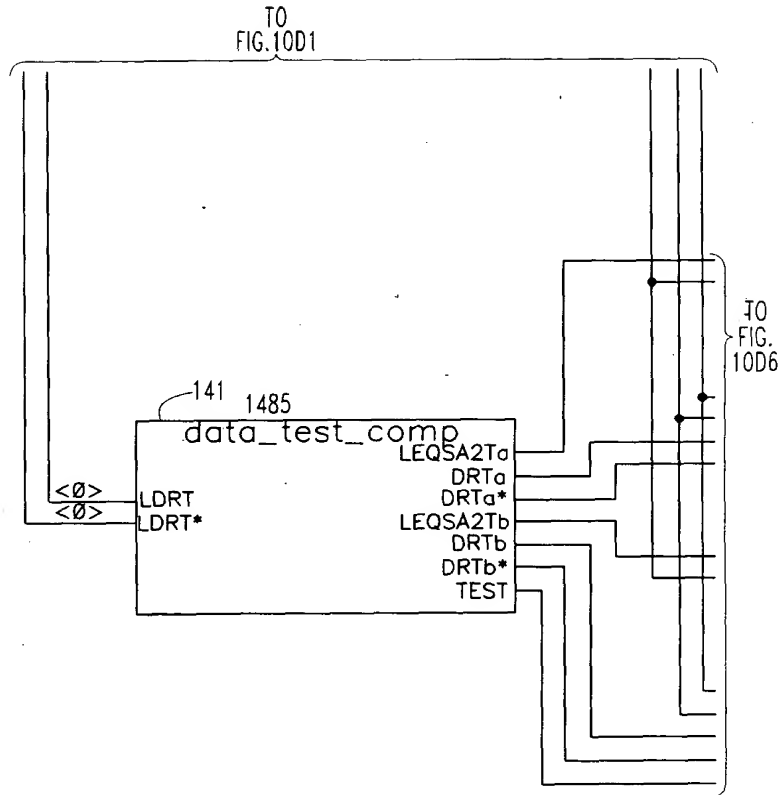


FIG. 10D5

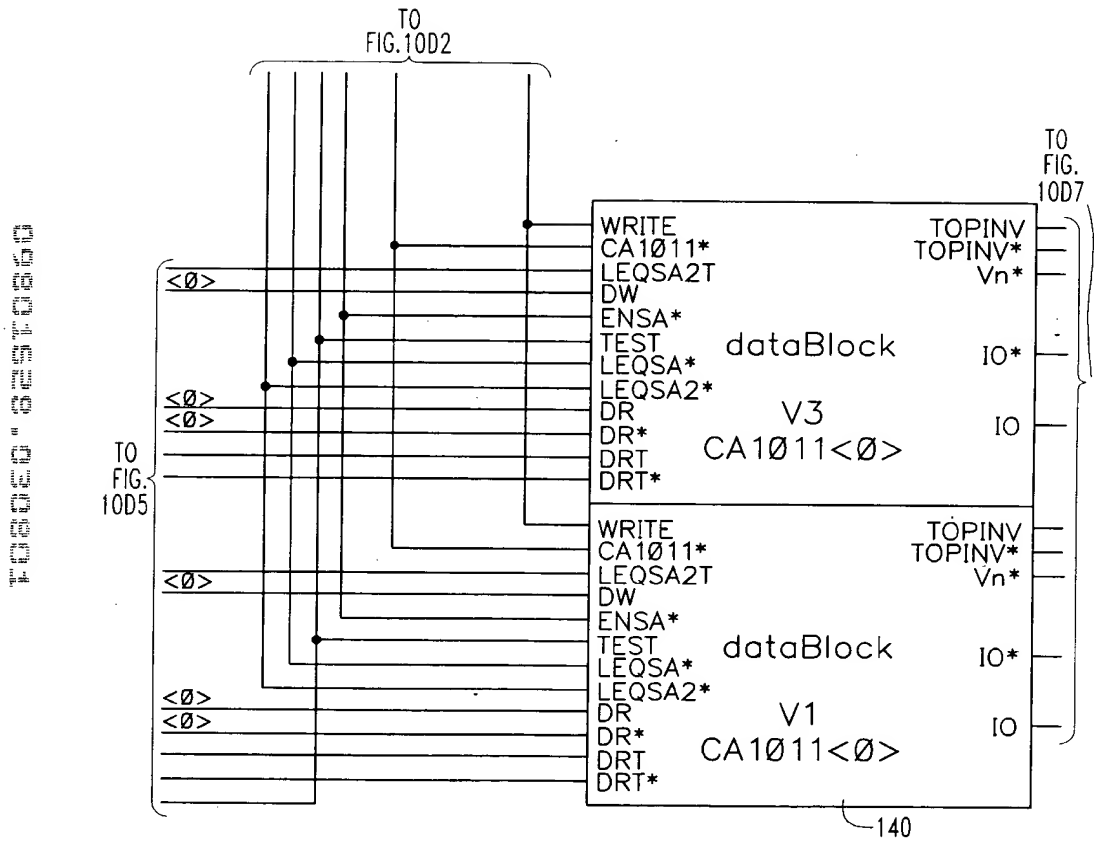


FIG. 10D6

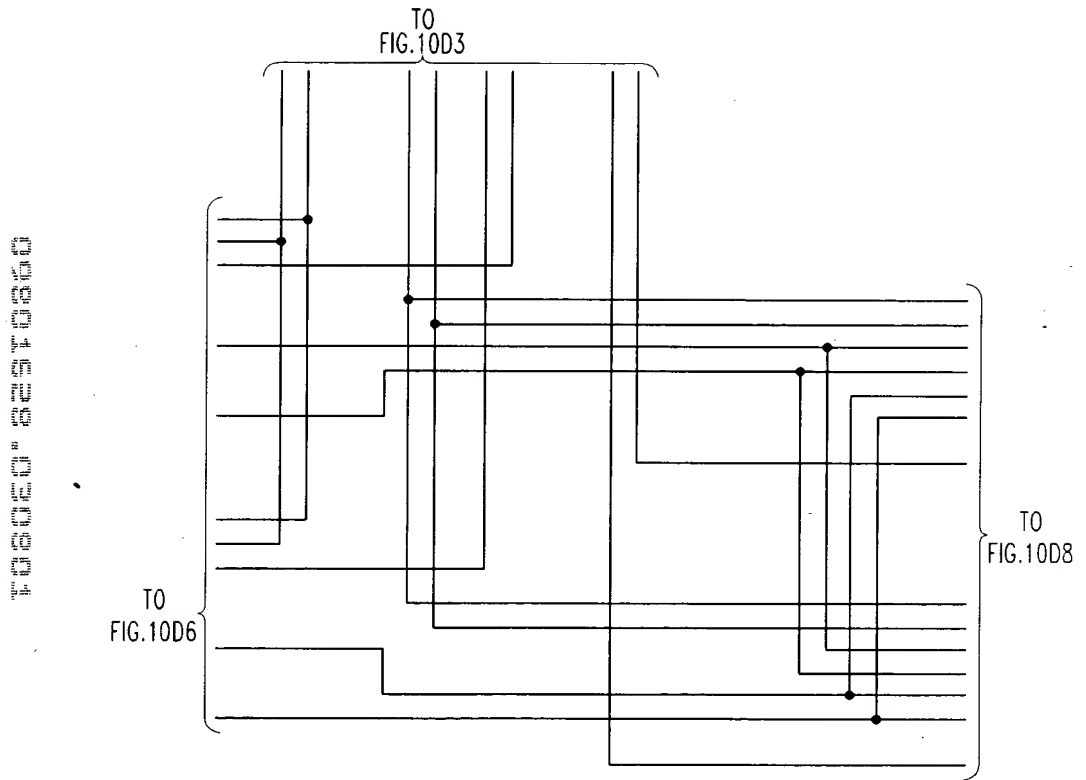


FIG. 10D7

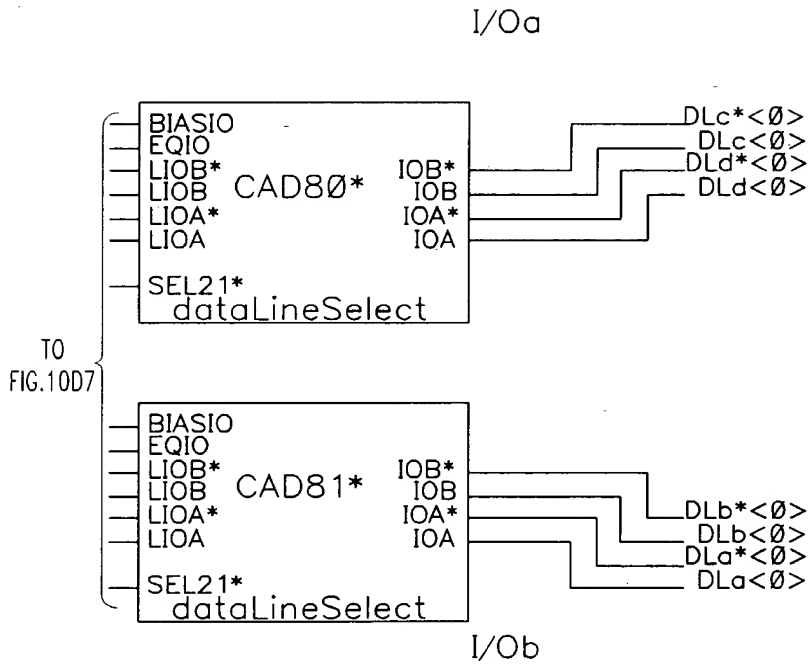
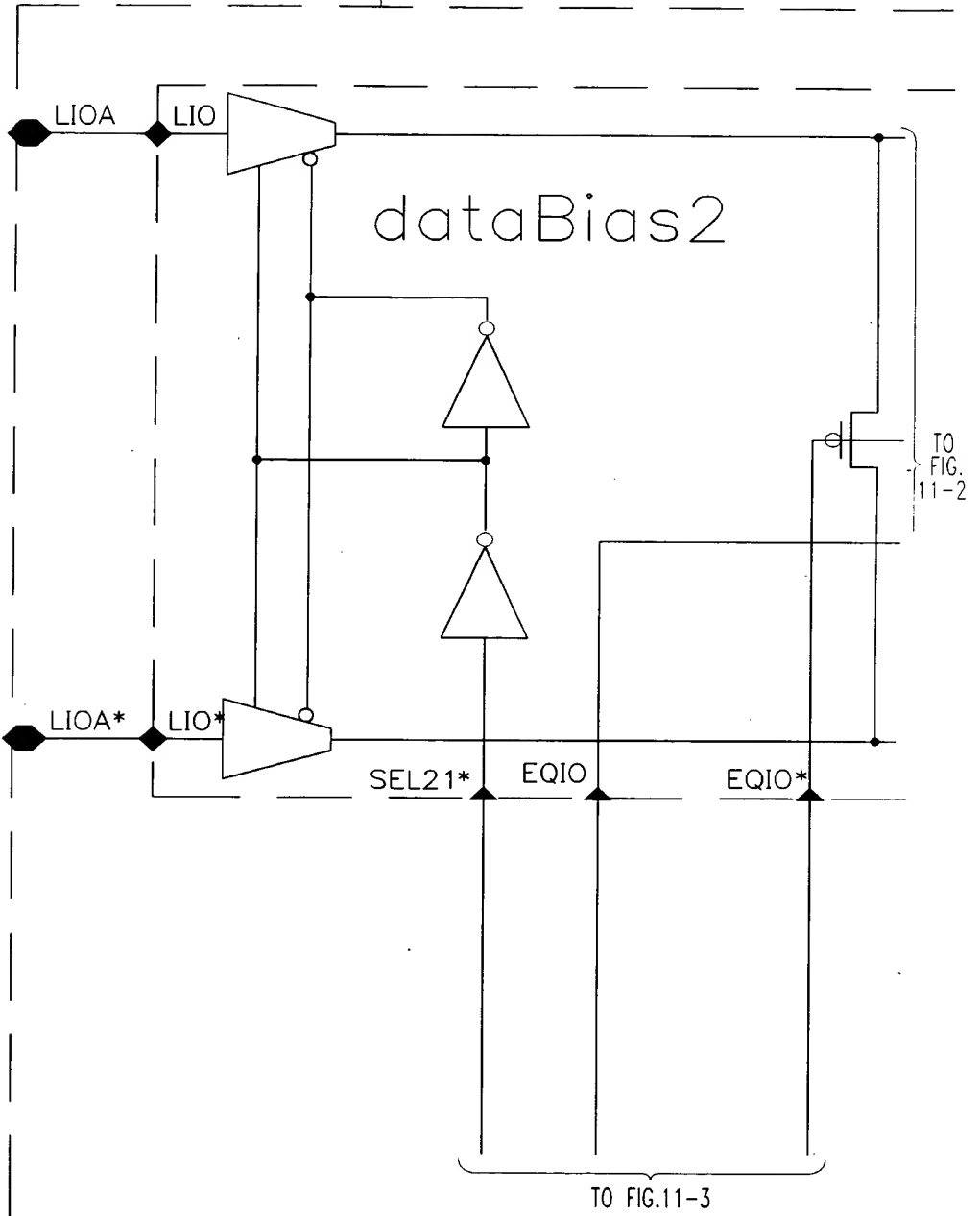


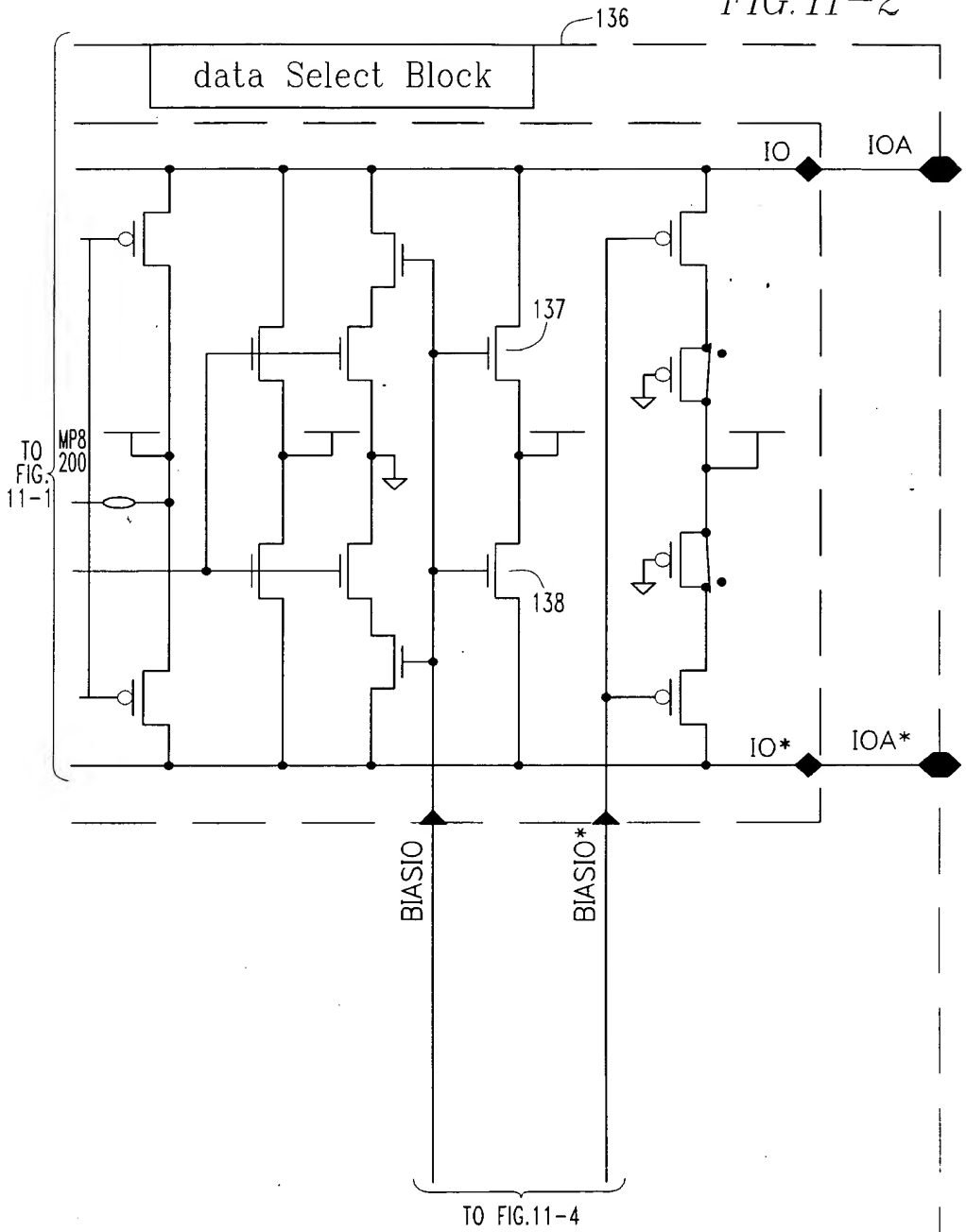
FIG. 10D8

136



00801620 030004

FIG. 11-2



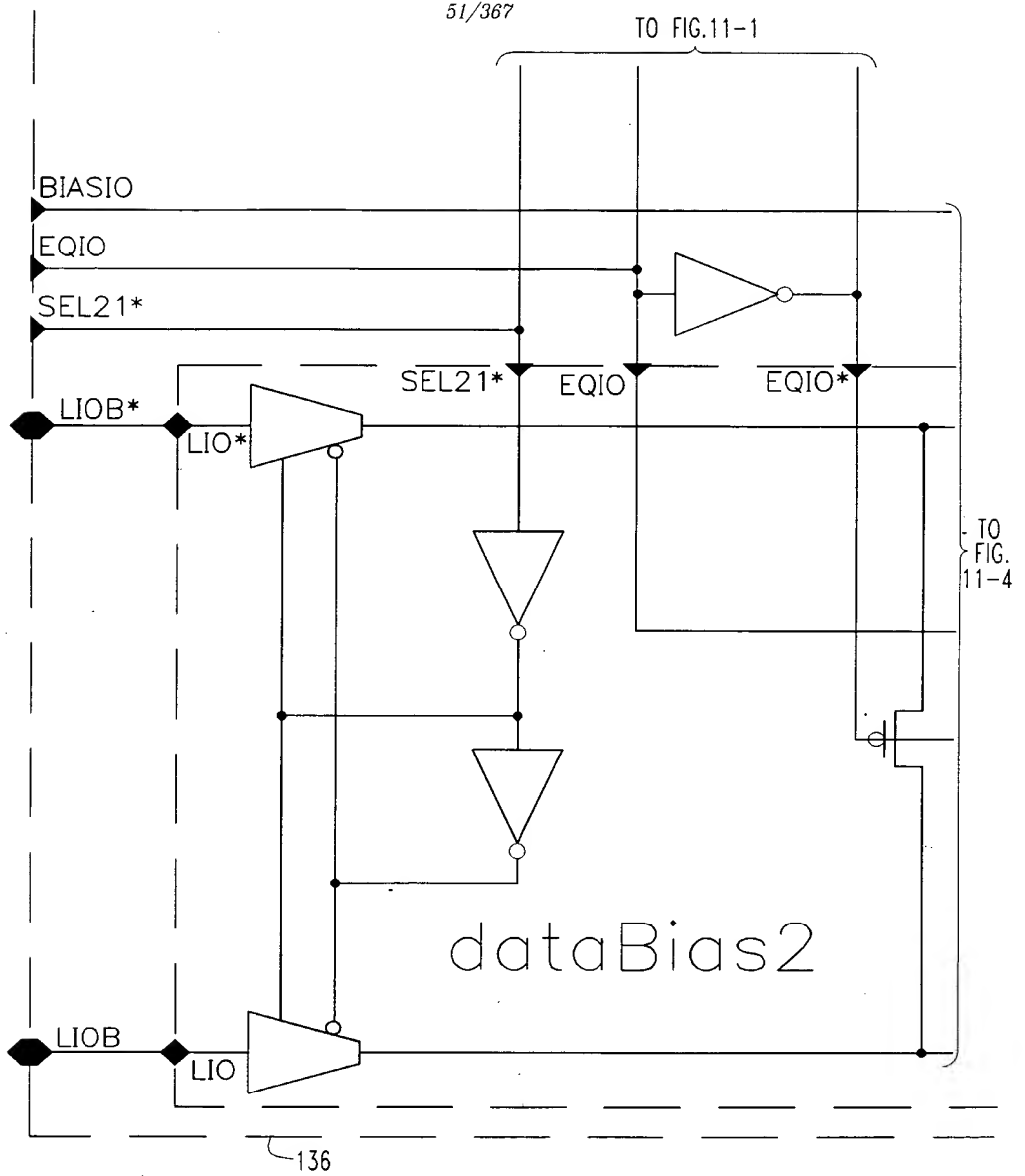


FIG. 11-3

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TO FIG. 11-2

TO FIG. 11-3

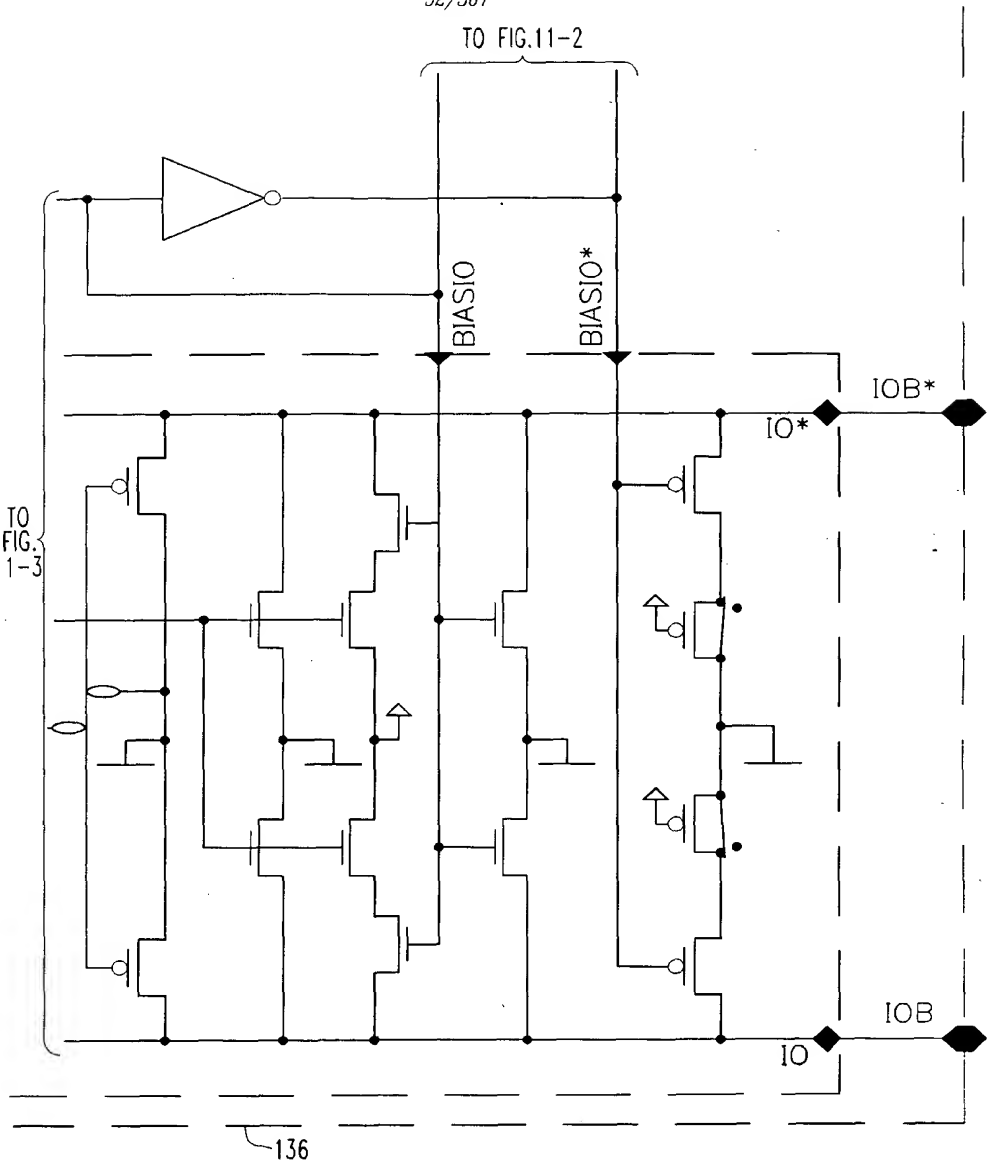
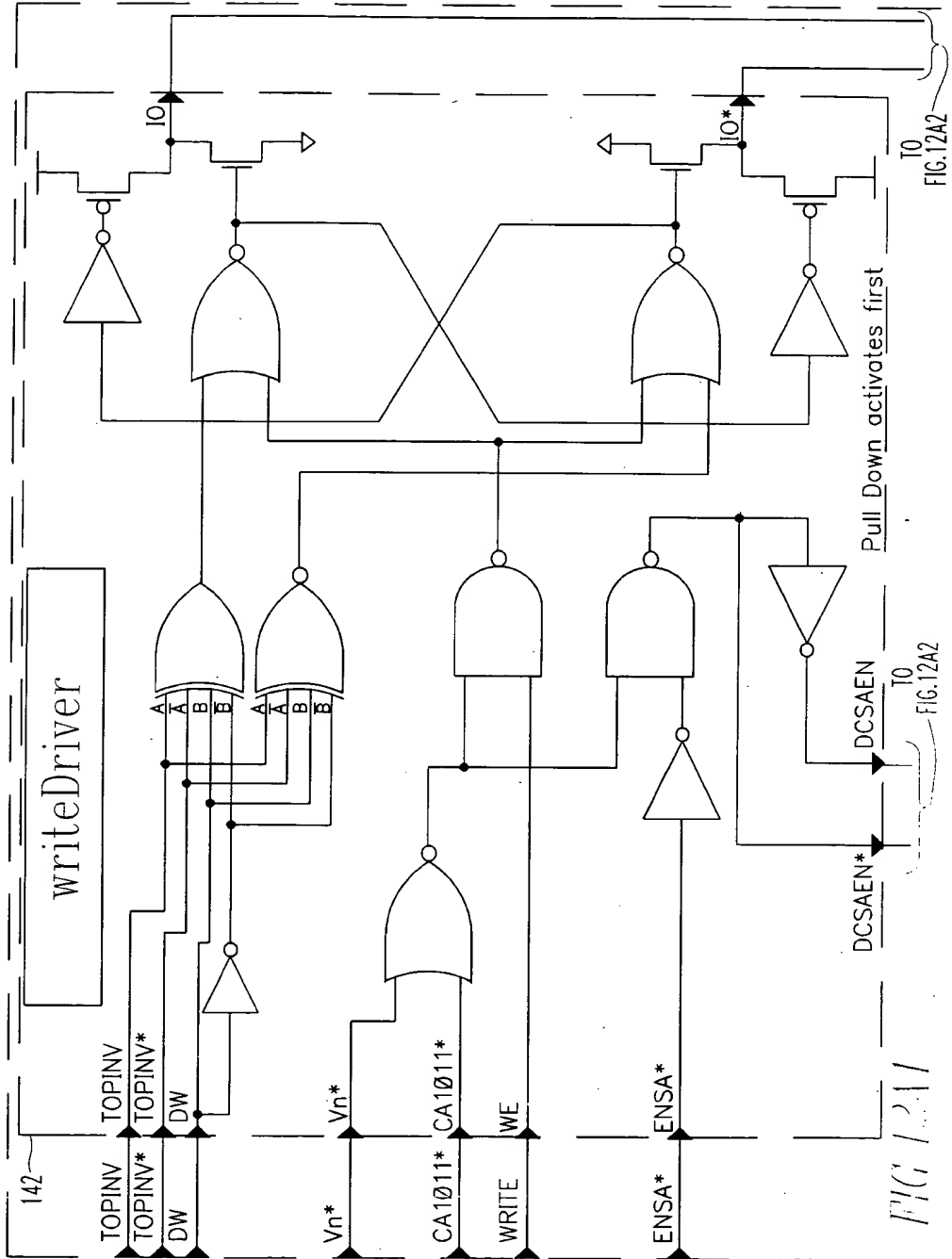


FIG. 11-4



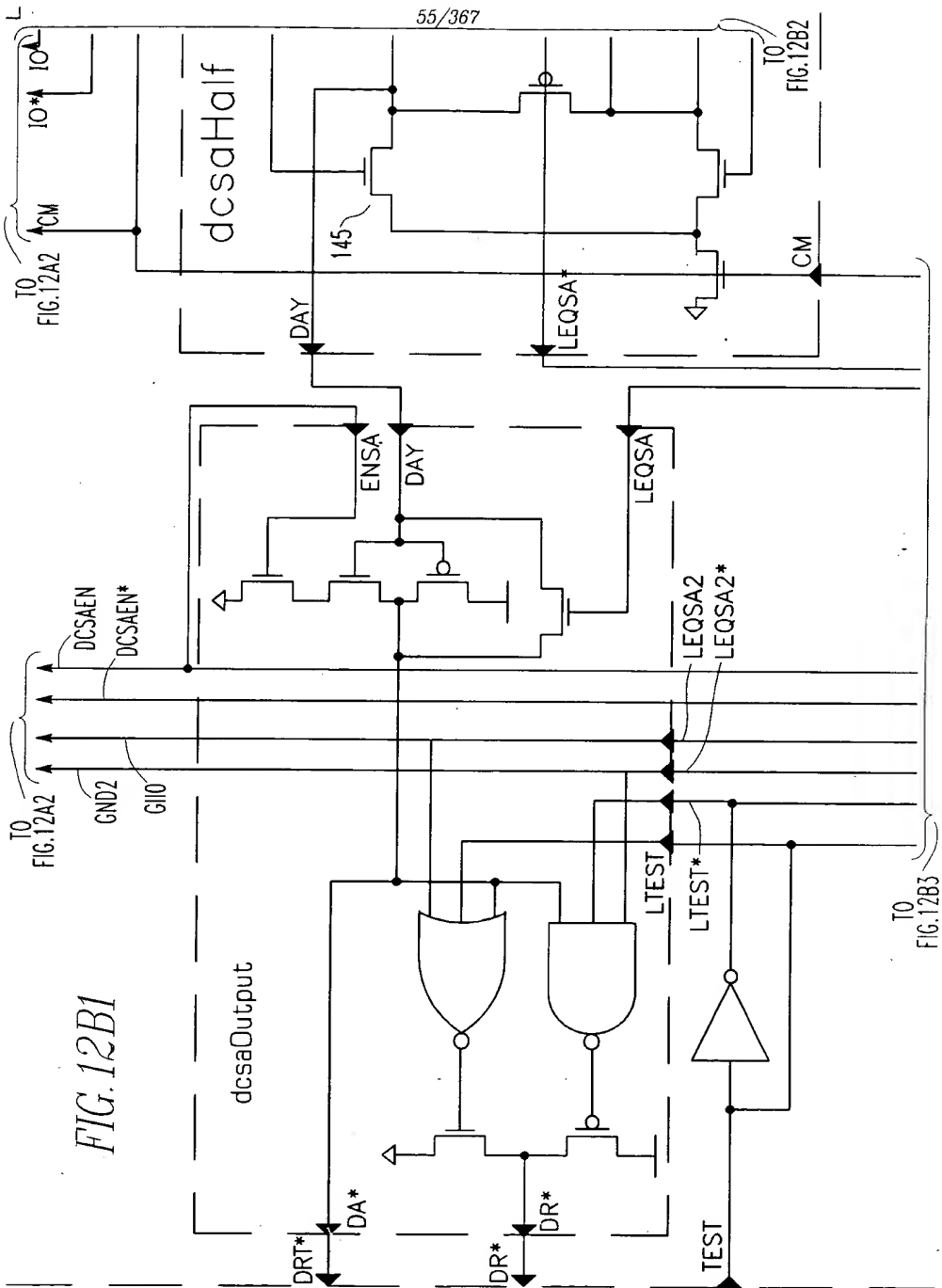


FIG. 12B1

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FIG. 12B2

FIG. 12B3

FIG. 12B2

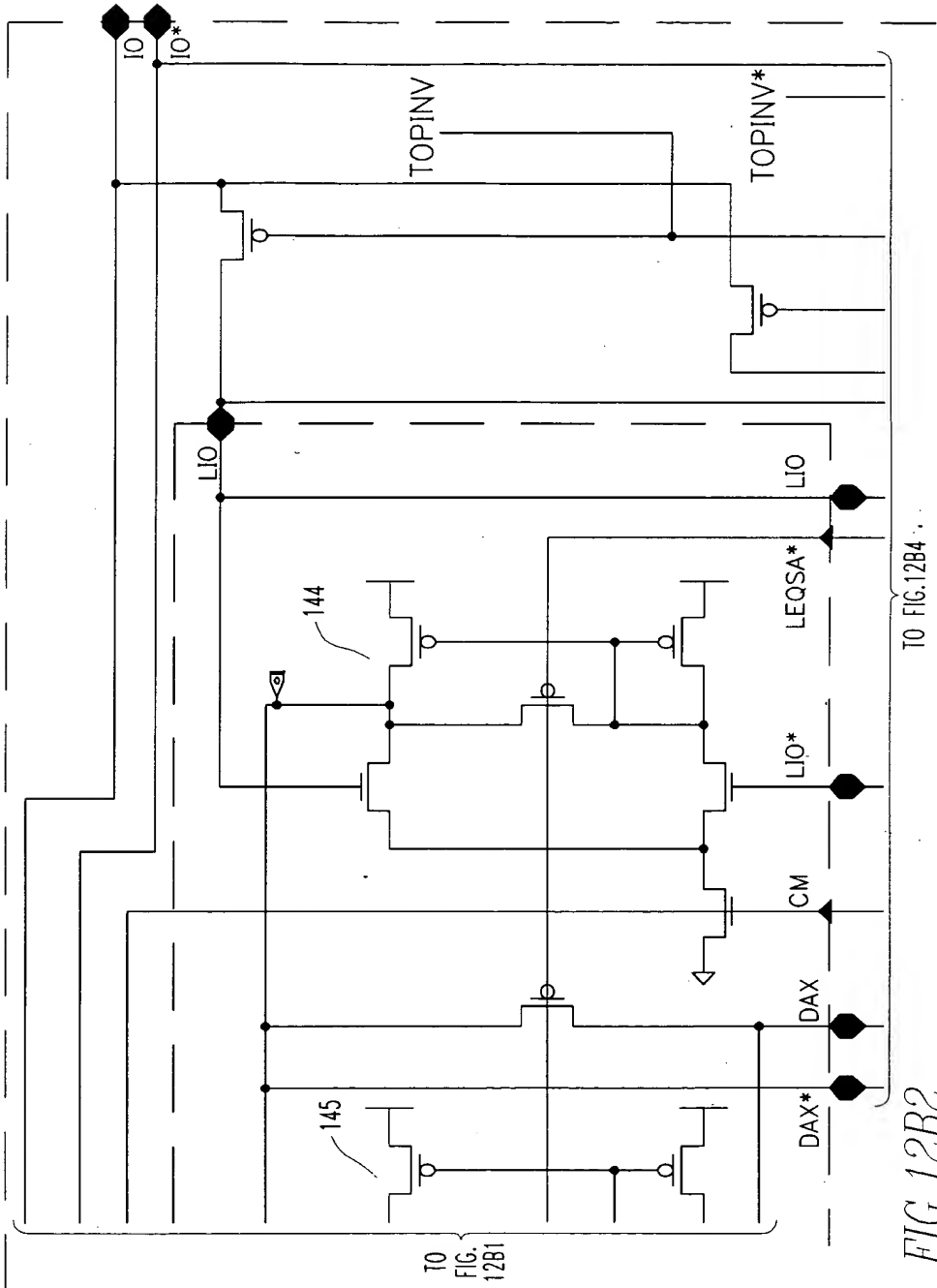
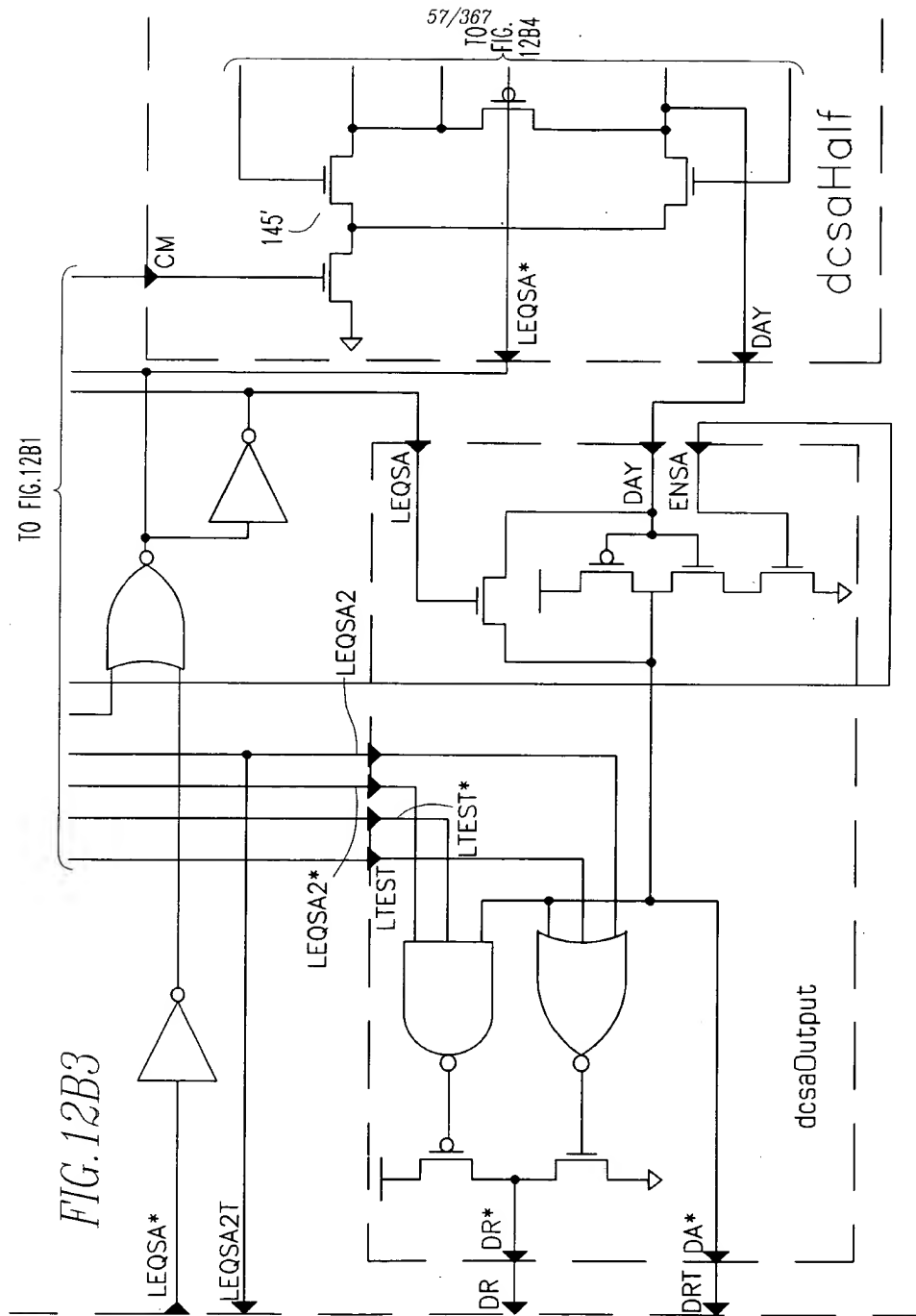
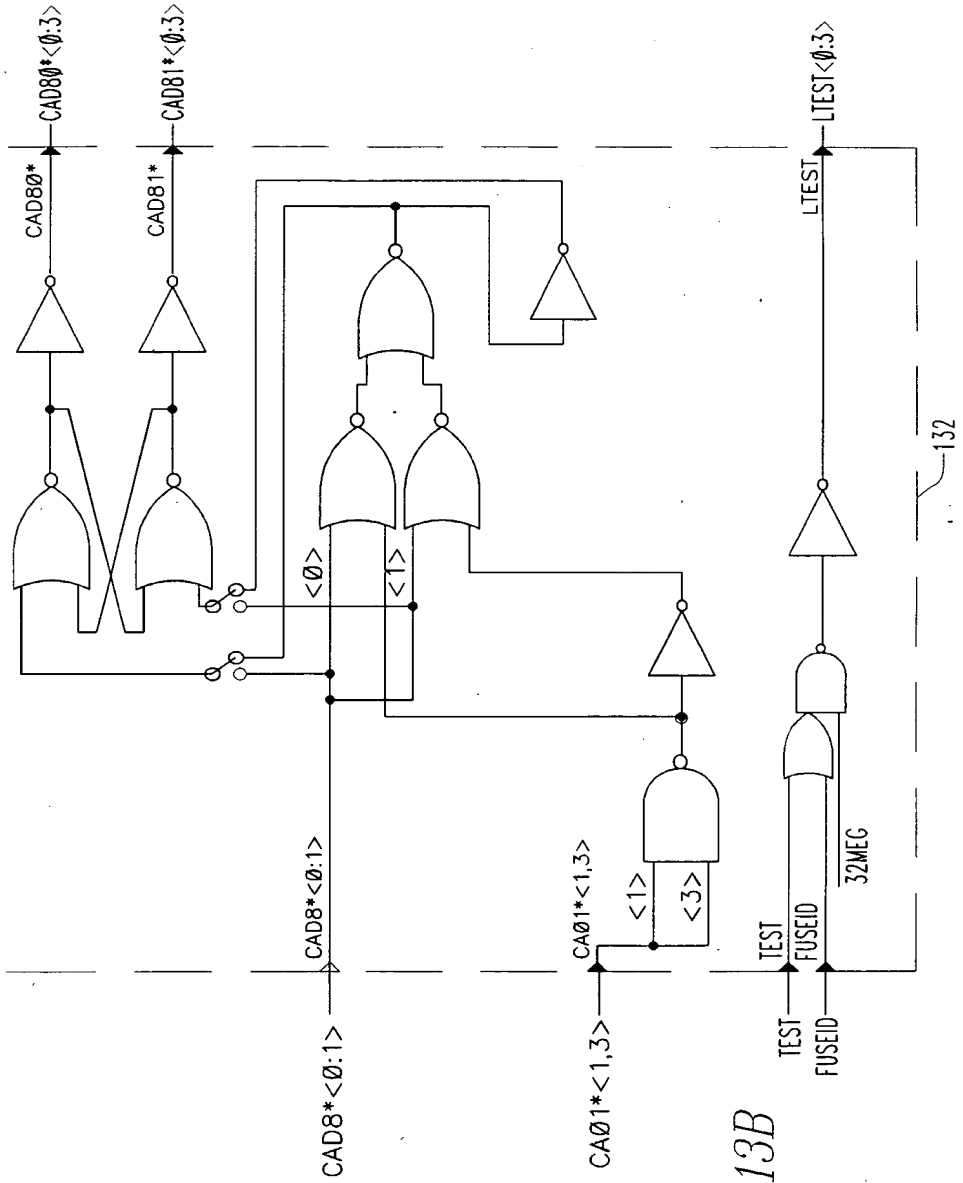


FIG. 12B2





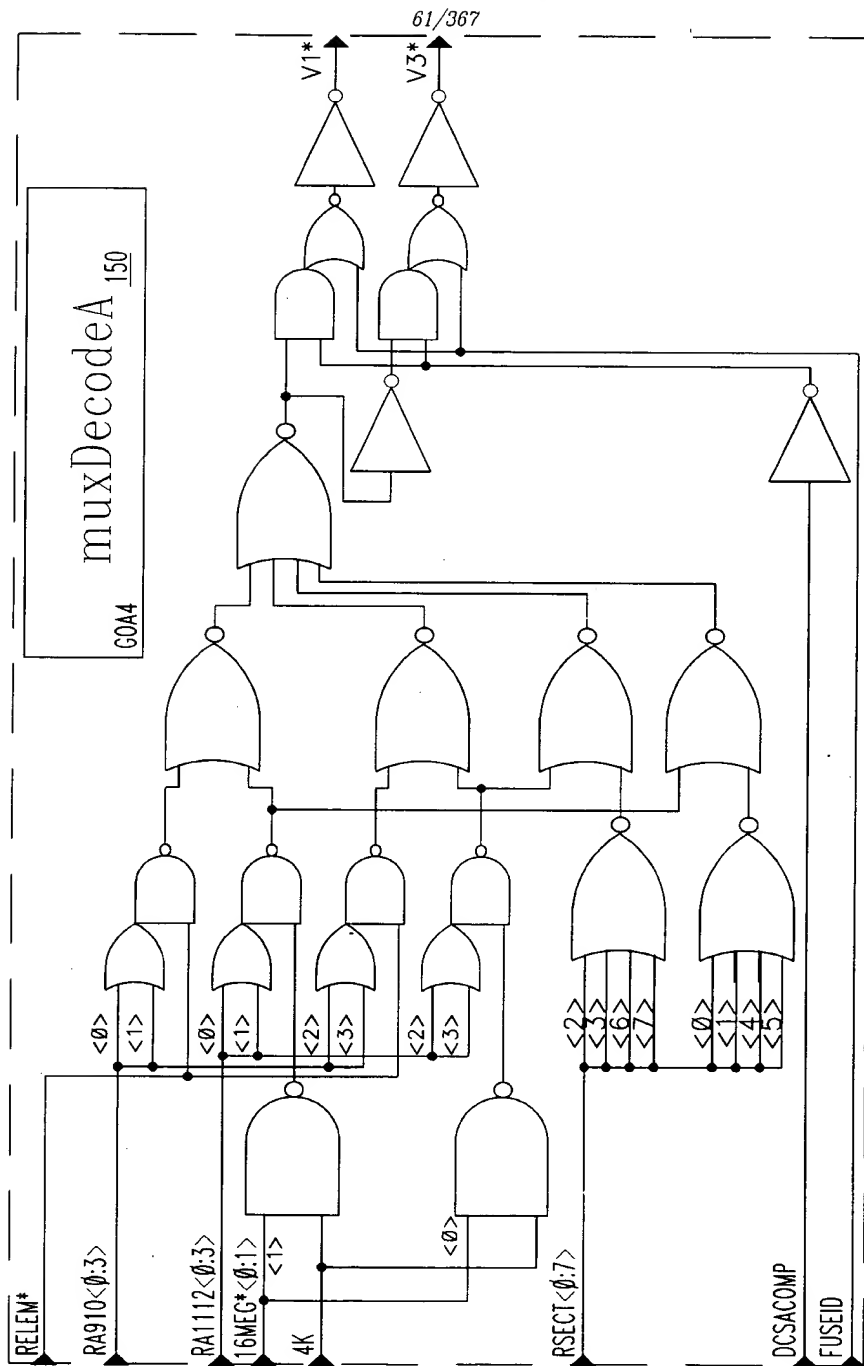
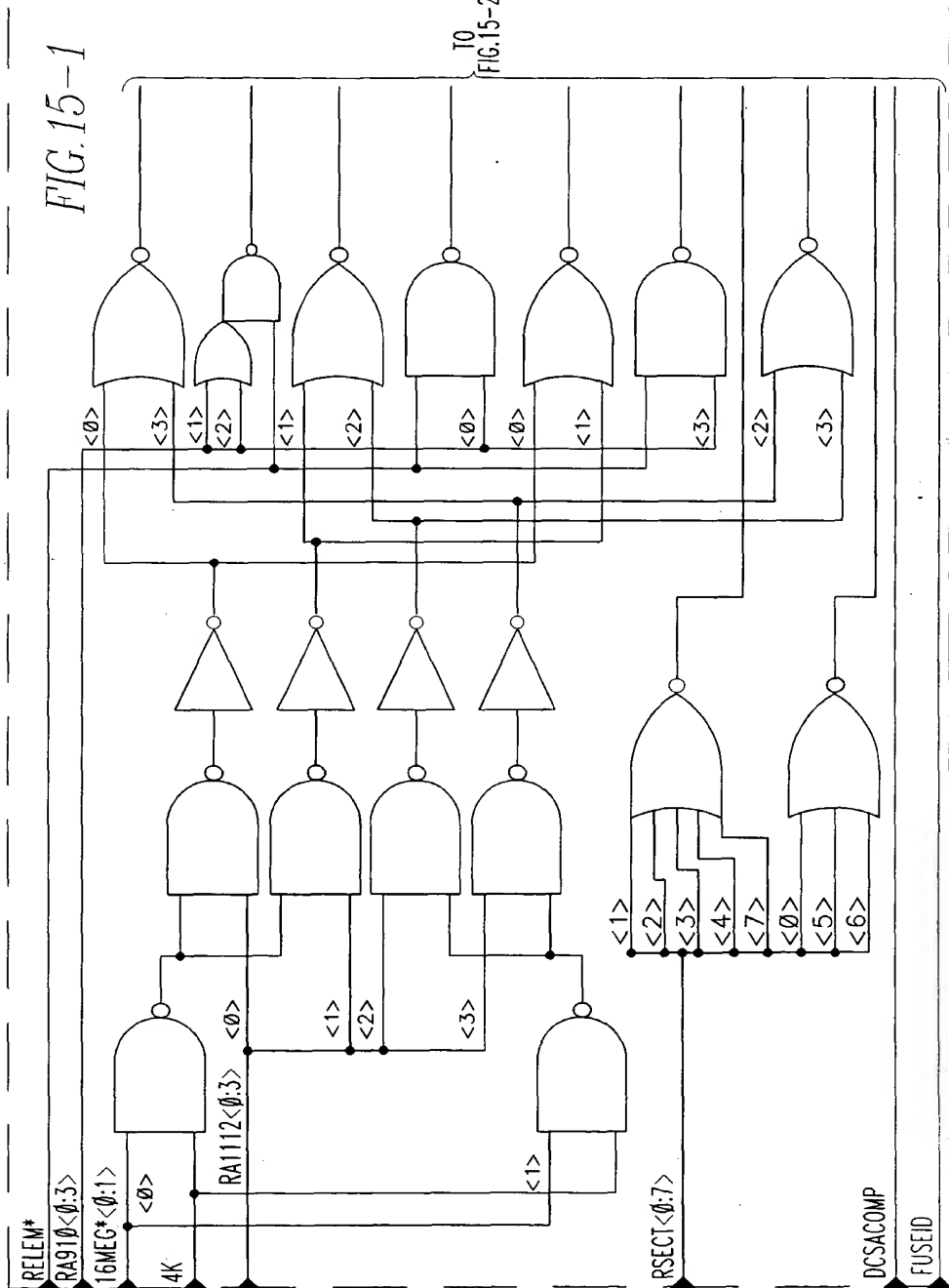


FIG. 14



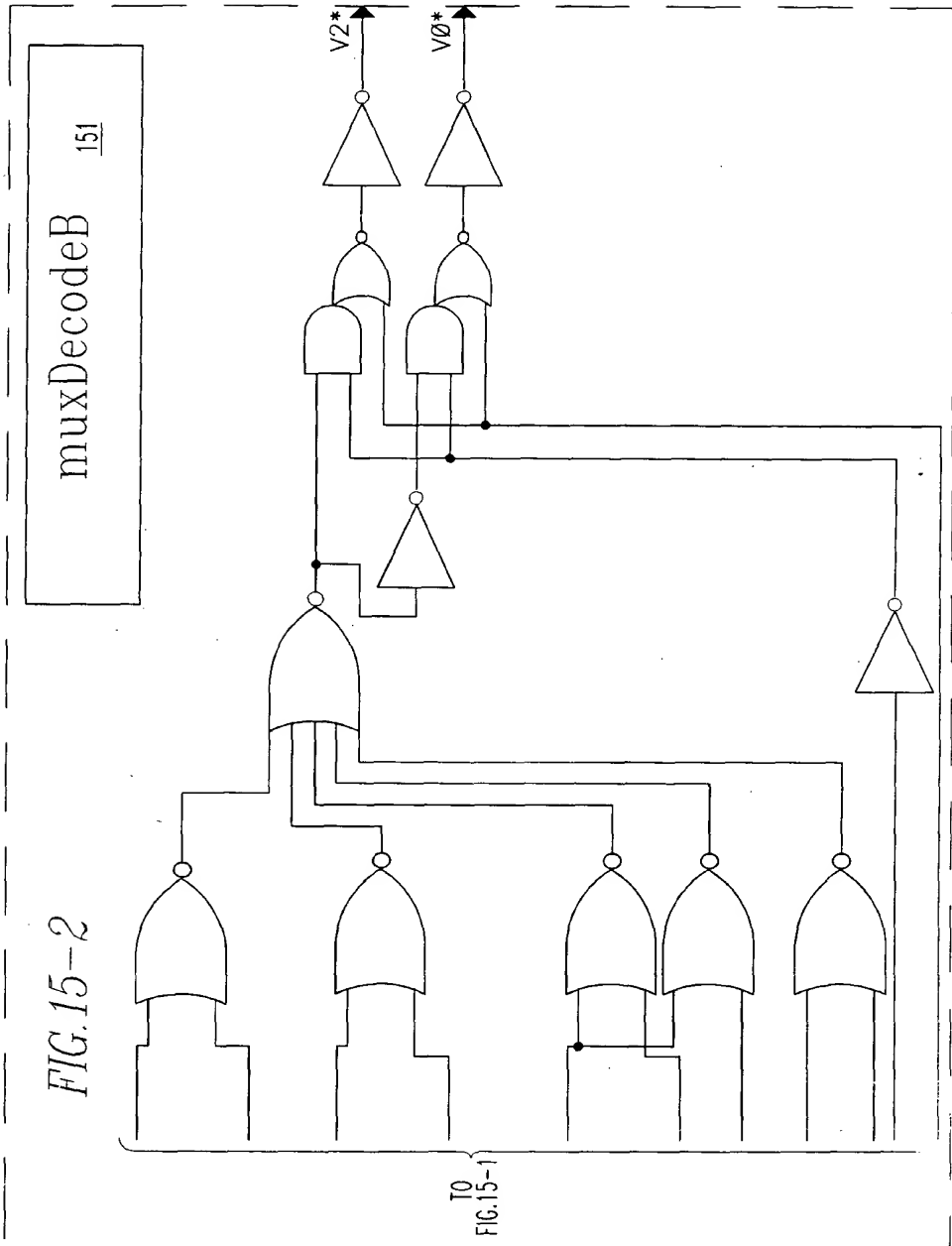
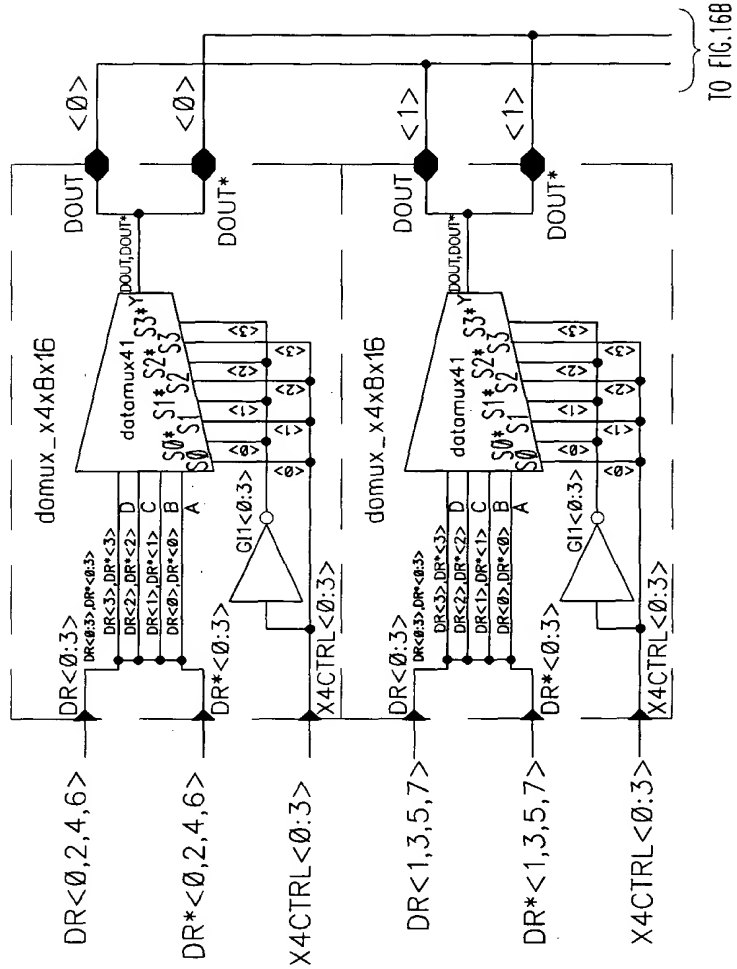
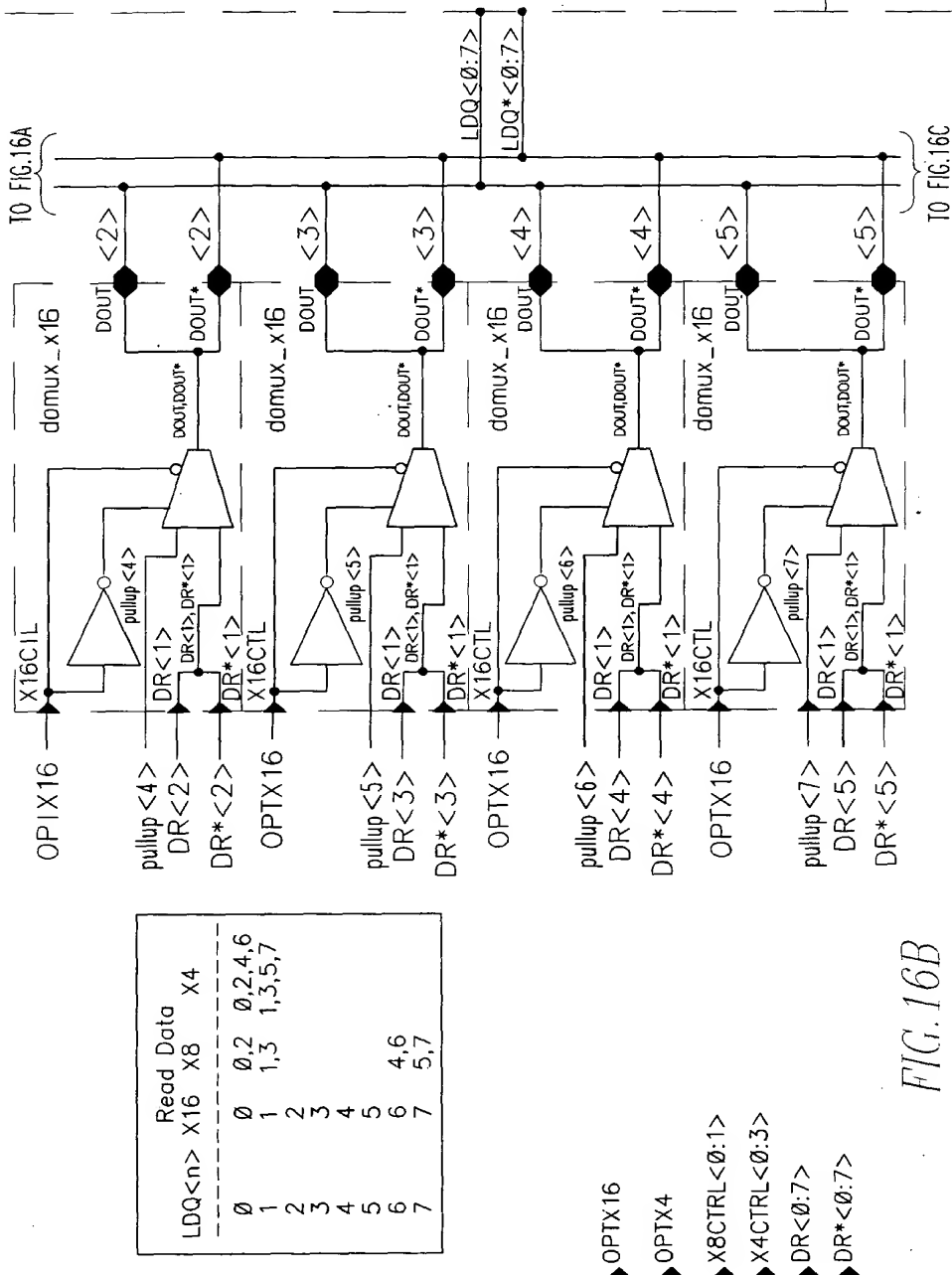


FIG. 16A

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Read Data			
LDQ<n>	X16	X8	X4
0	0,2	0,2,4,6	
1	1,3	1,3,5,7	
2			
3			
4			
5			
6	4,6		
7	5,7		

FIG. 16B

- OPTX16
- OPTX4
- X8CTRL<0:1>
- X4CTRL<0:3>
- DR<0:7>
- DR*<0:7>

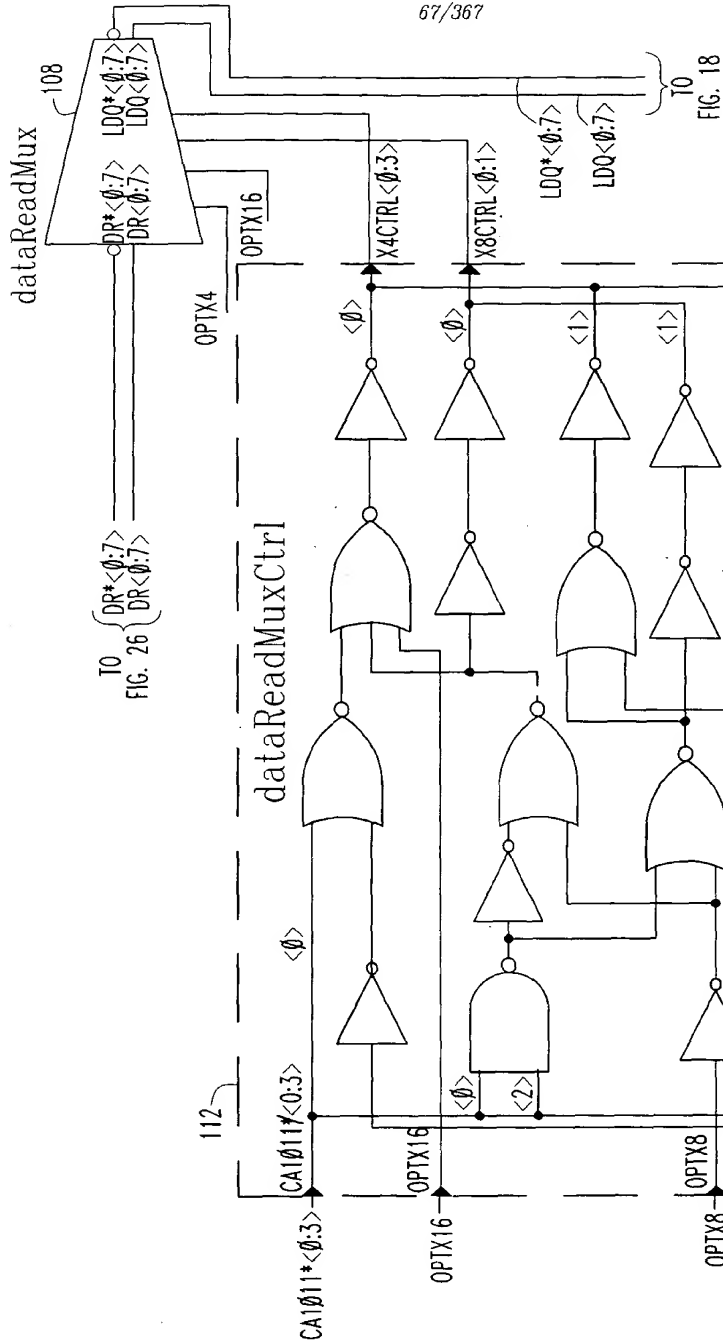
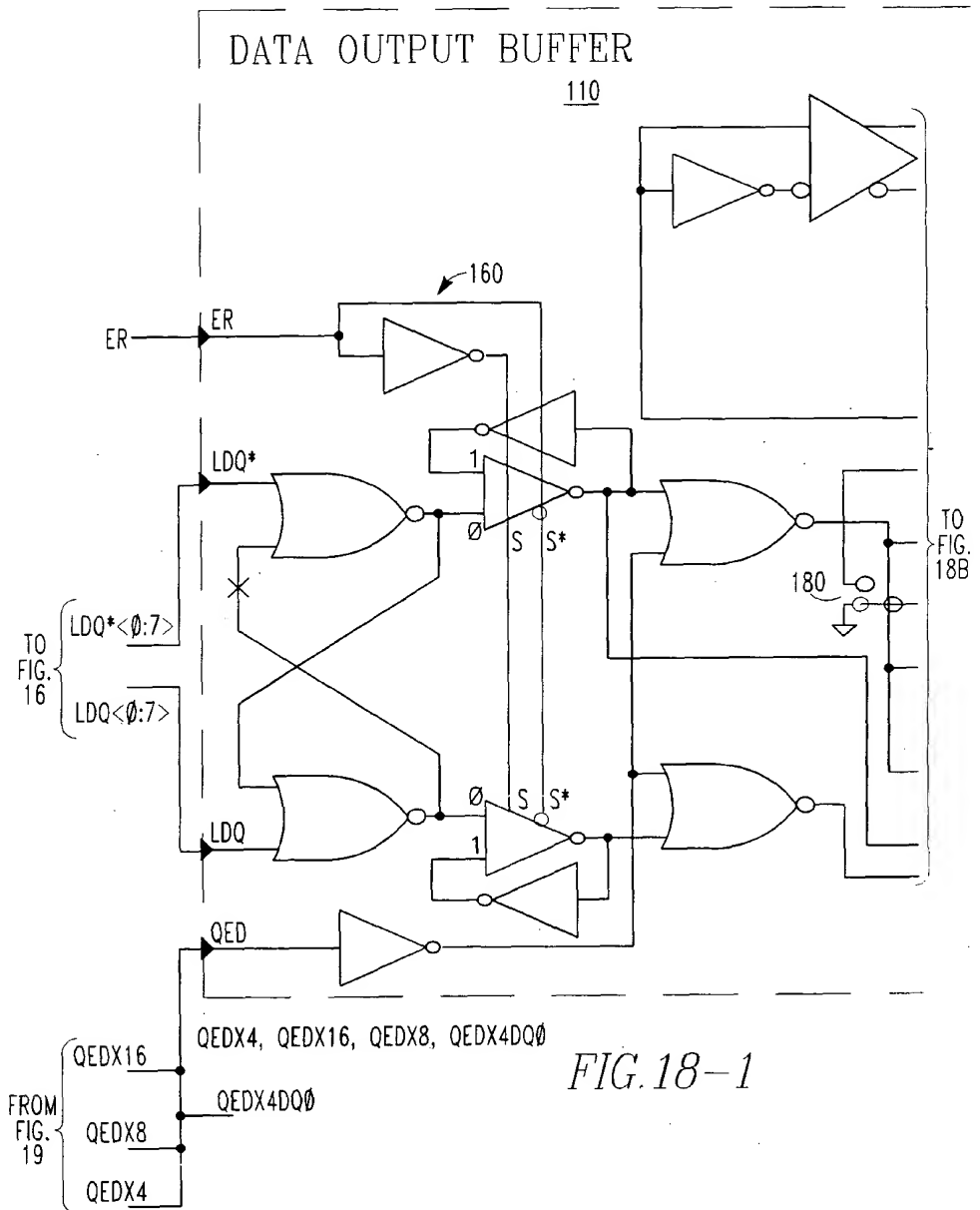


FIG. 17



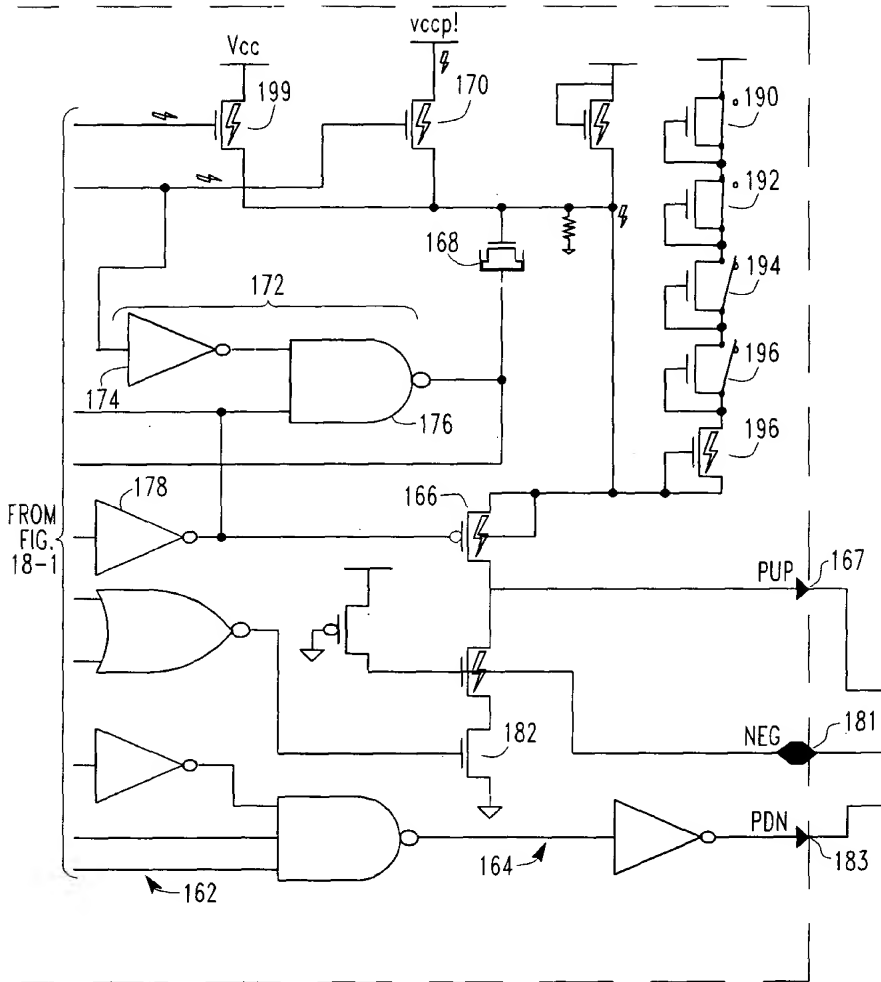


FIG. 18-2

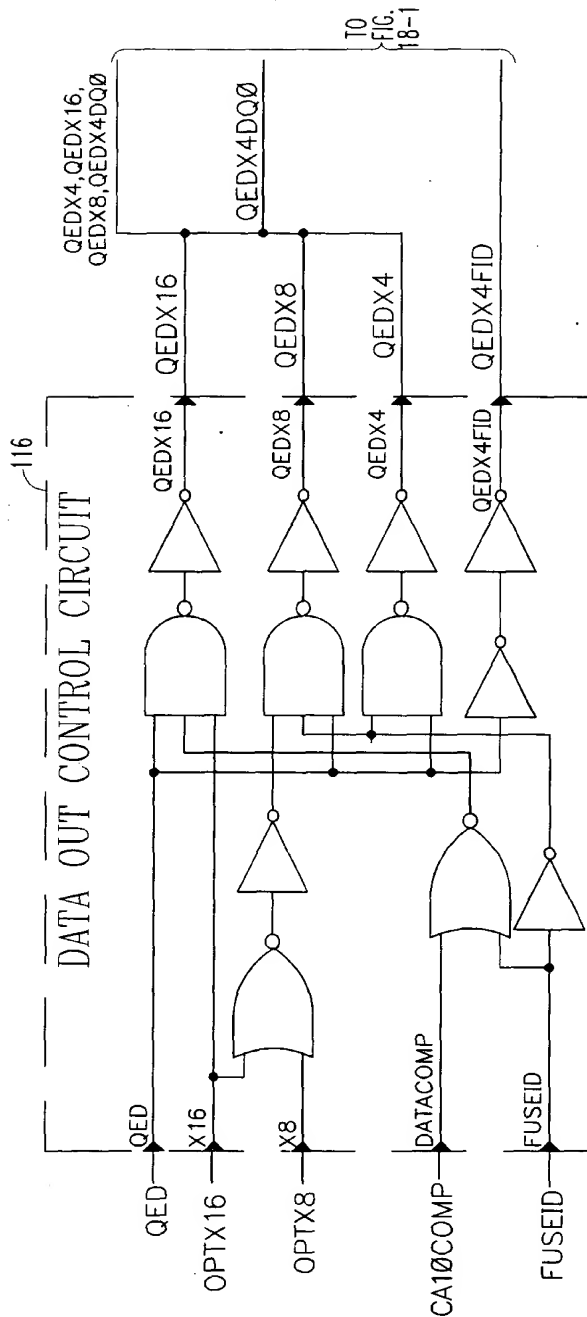
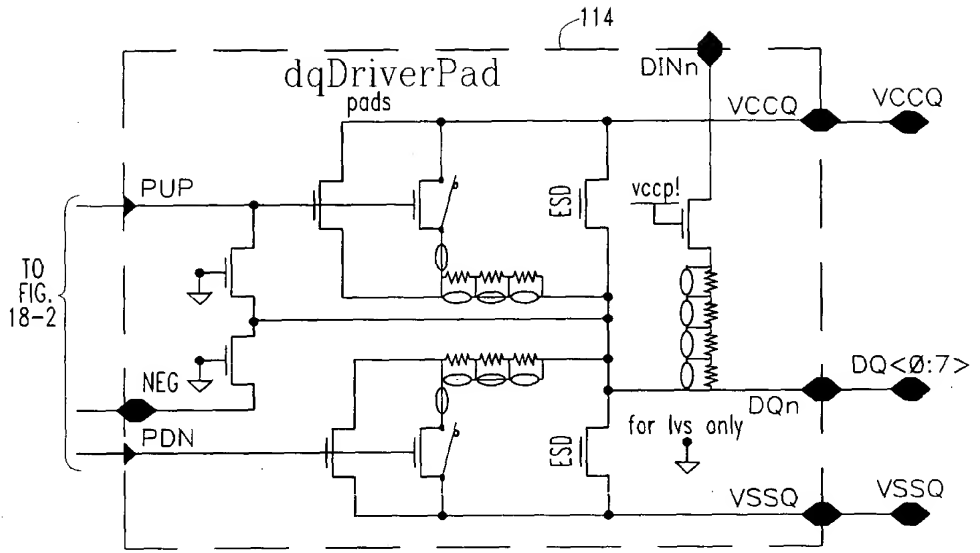


FIG. 19



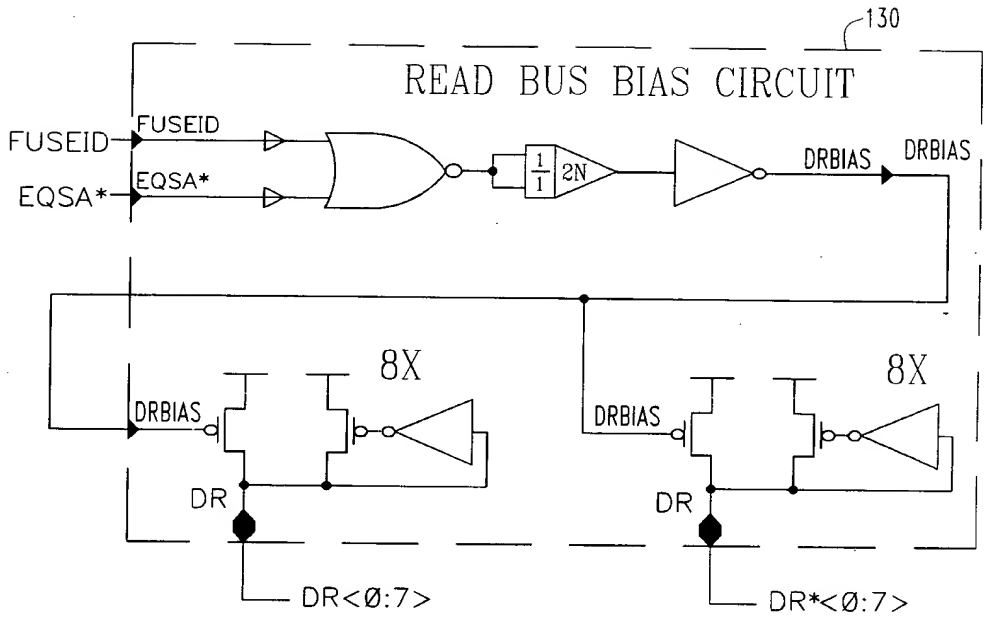
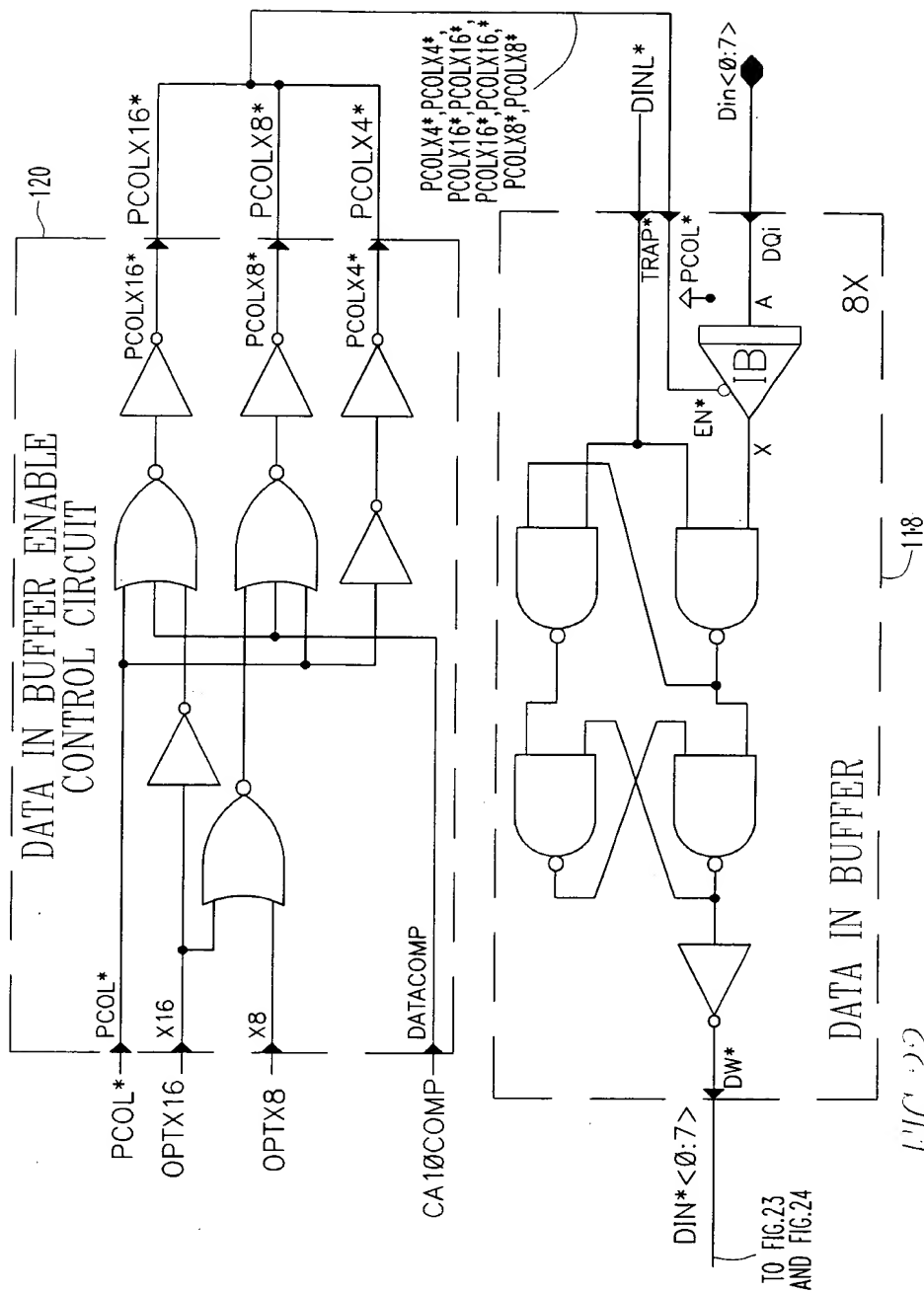


FIG. 21



TO FIG. 23
AND FIG. 24

FIG. 23-1

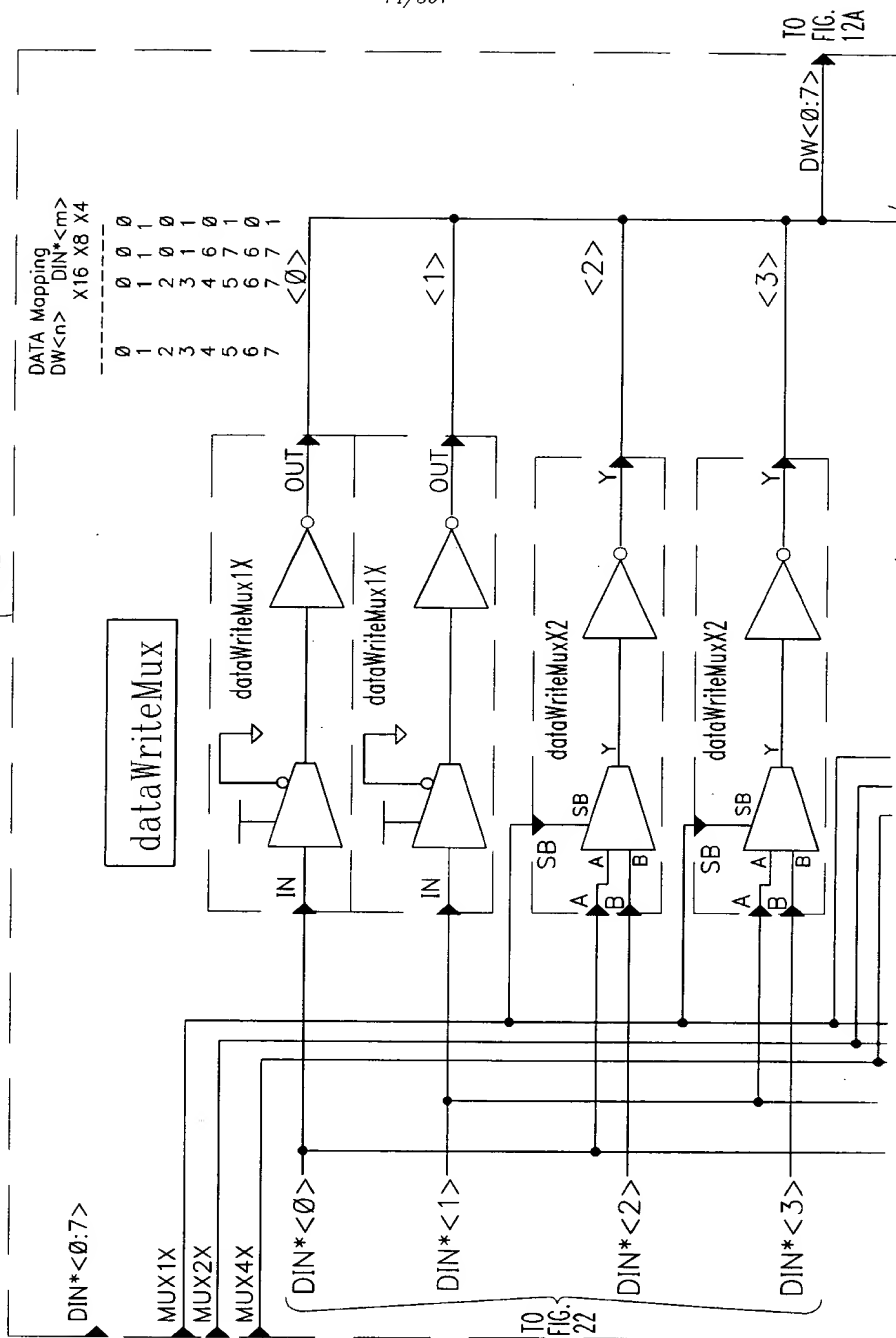
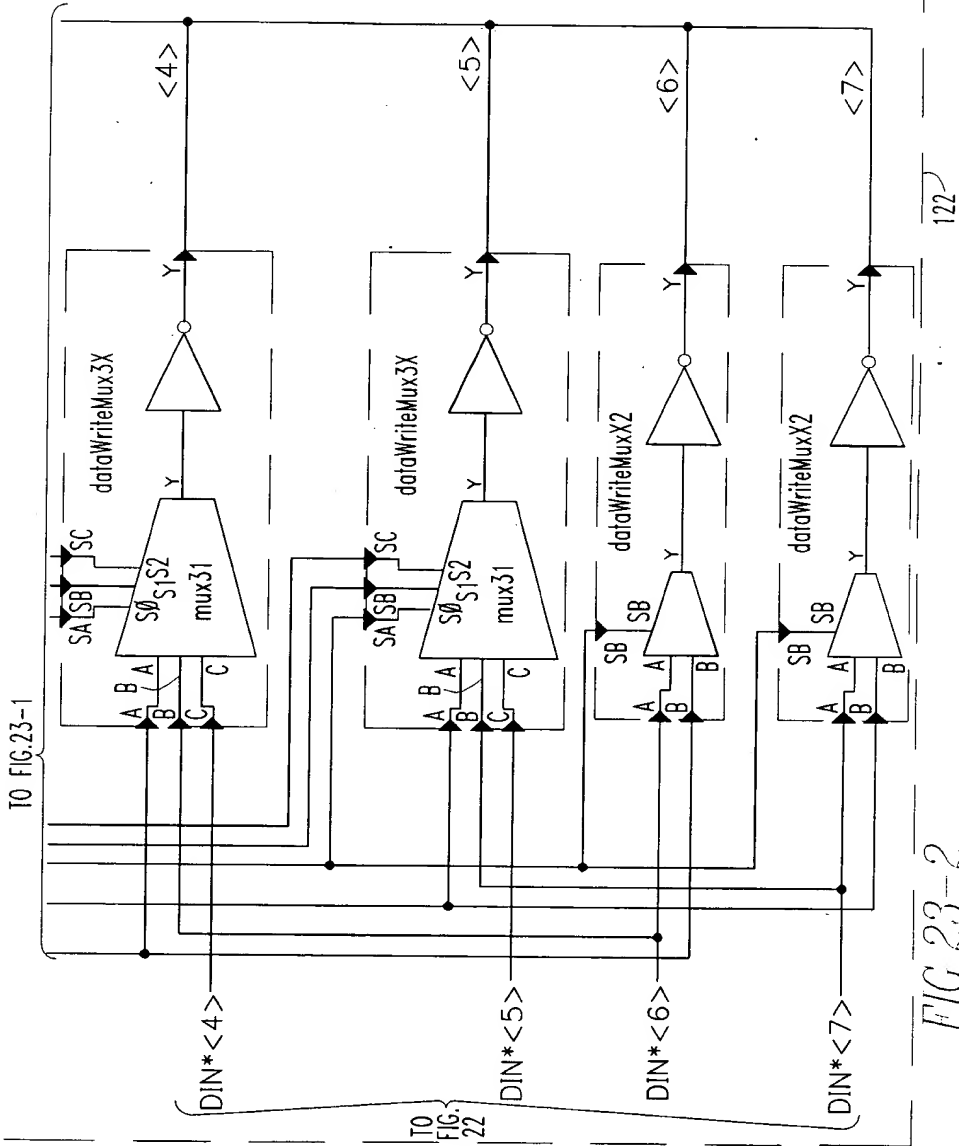


FIG. 23-2



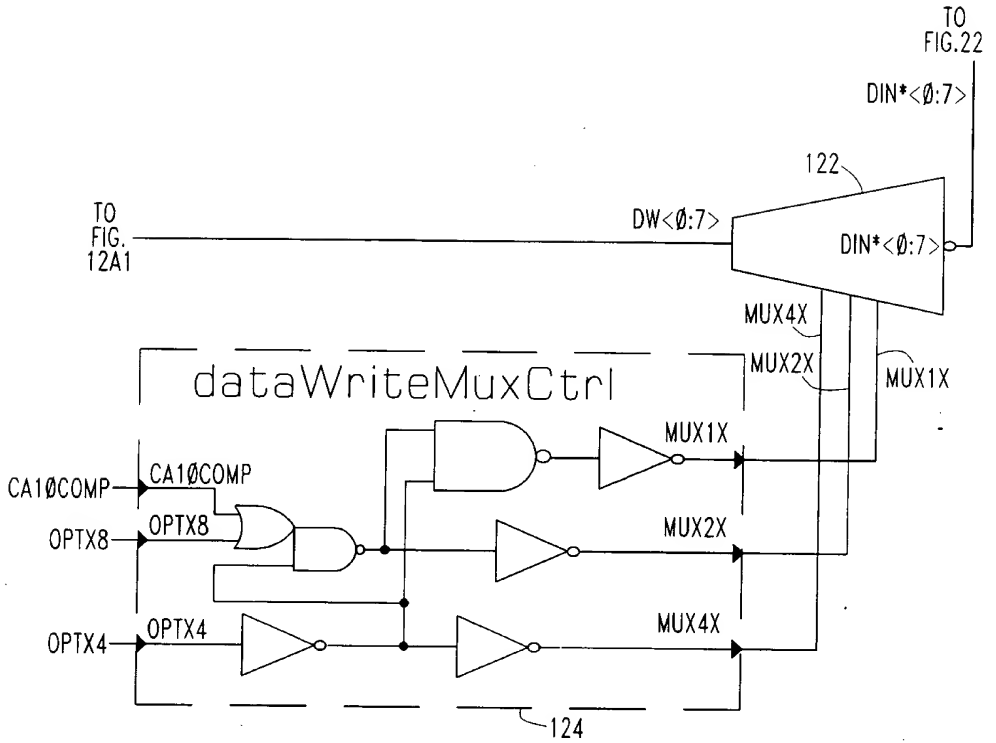


FIG. 24

FIG. 25

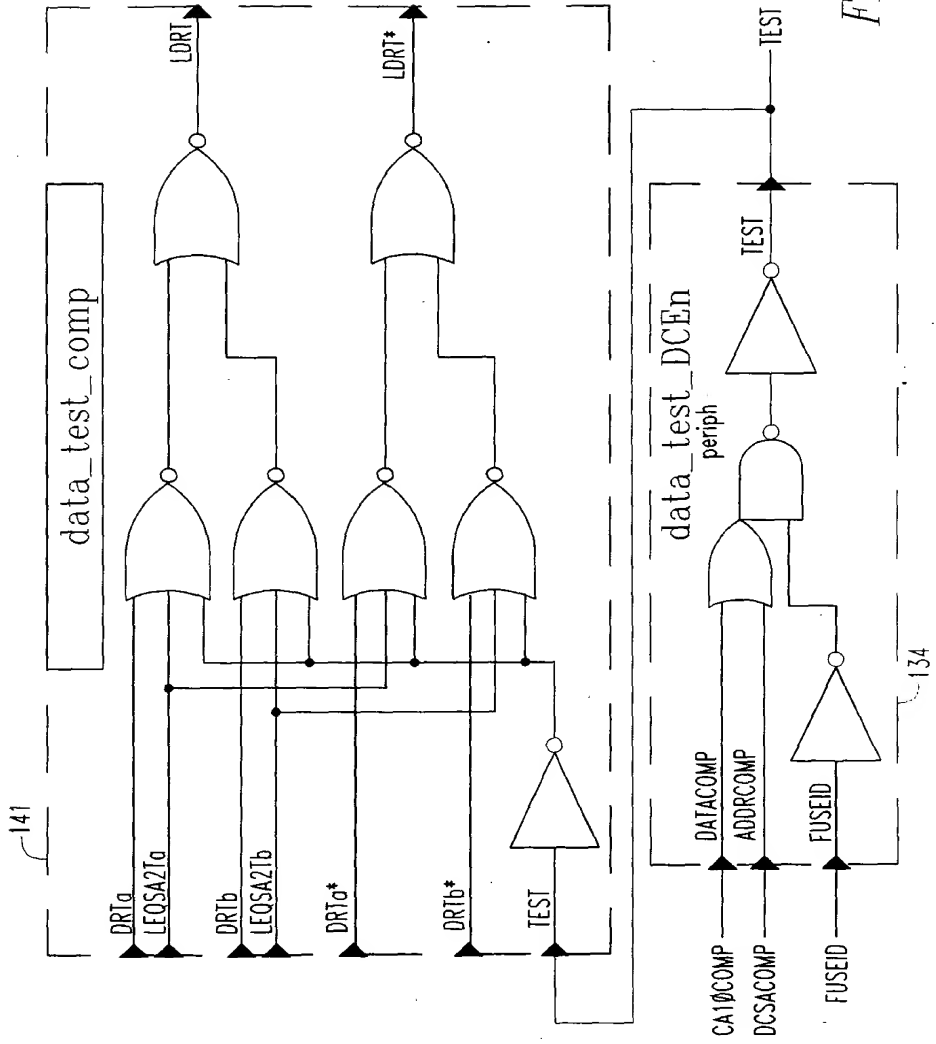
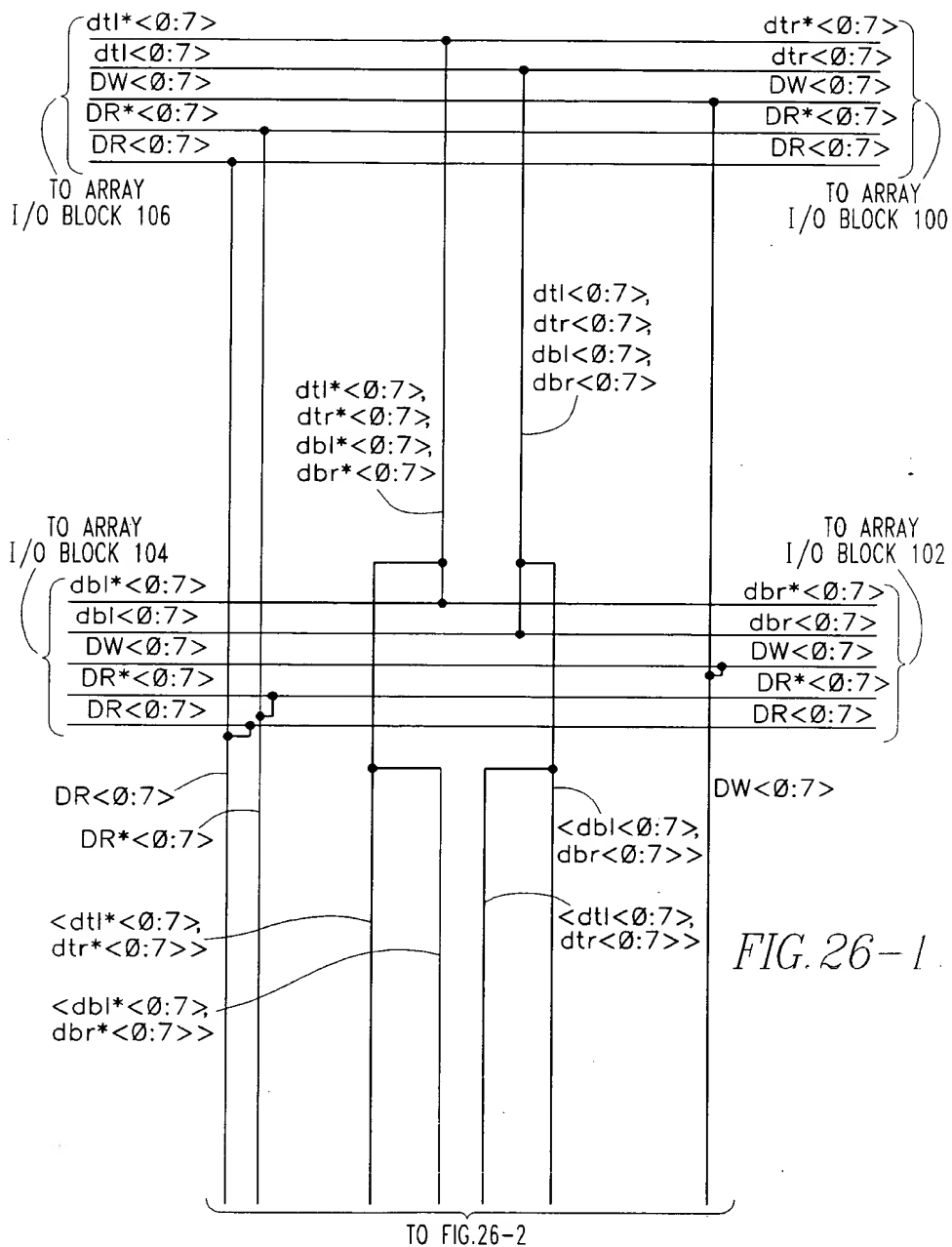


FIG. 25



FROM FIG. 26-1

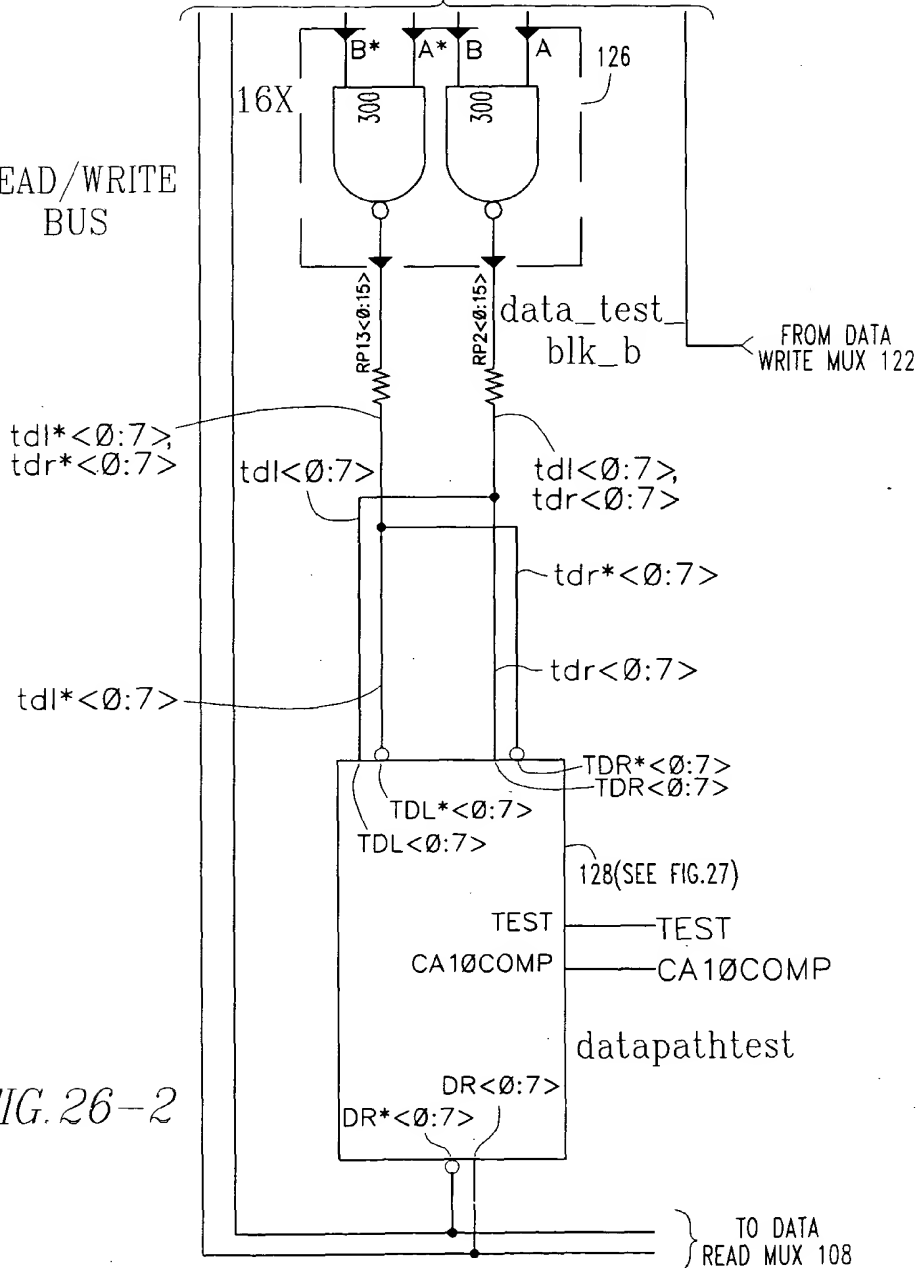
READ/WRITE
BUS

FIG. 26-2

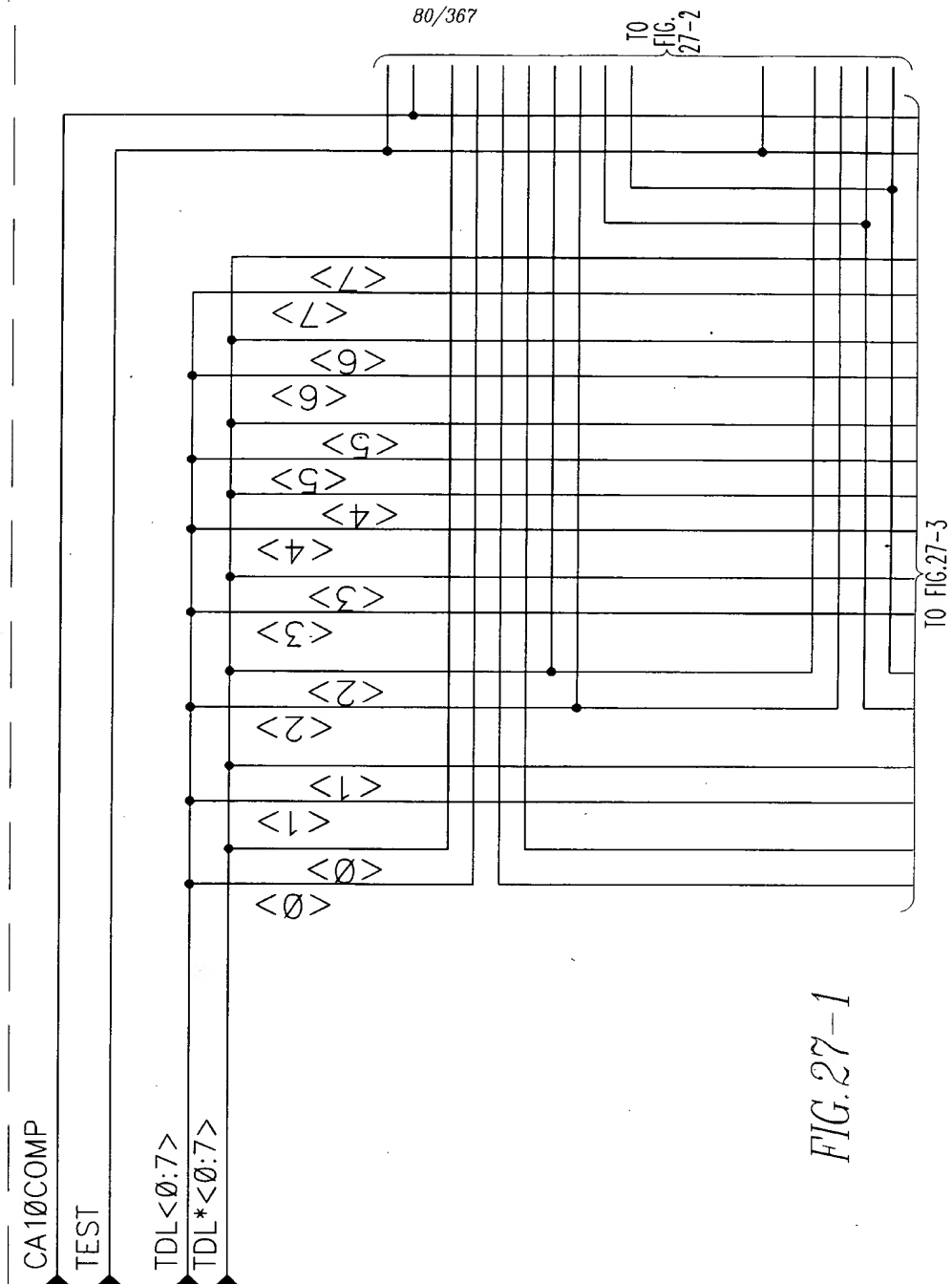


FIG. 27-2

dataPathTest
Block 128

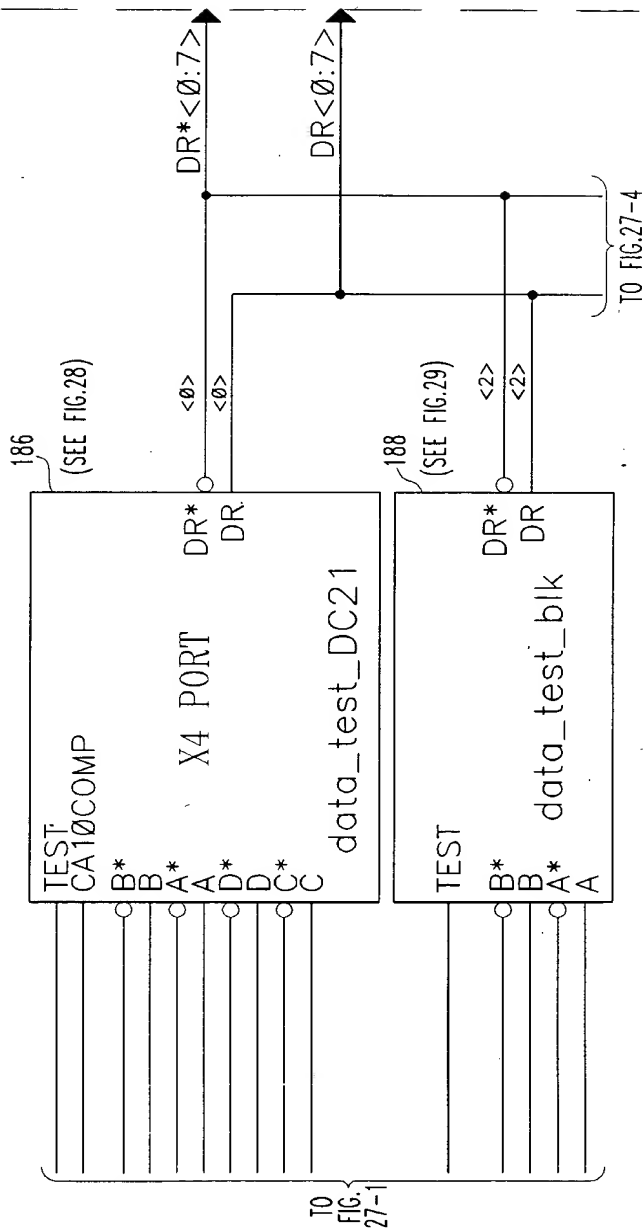
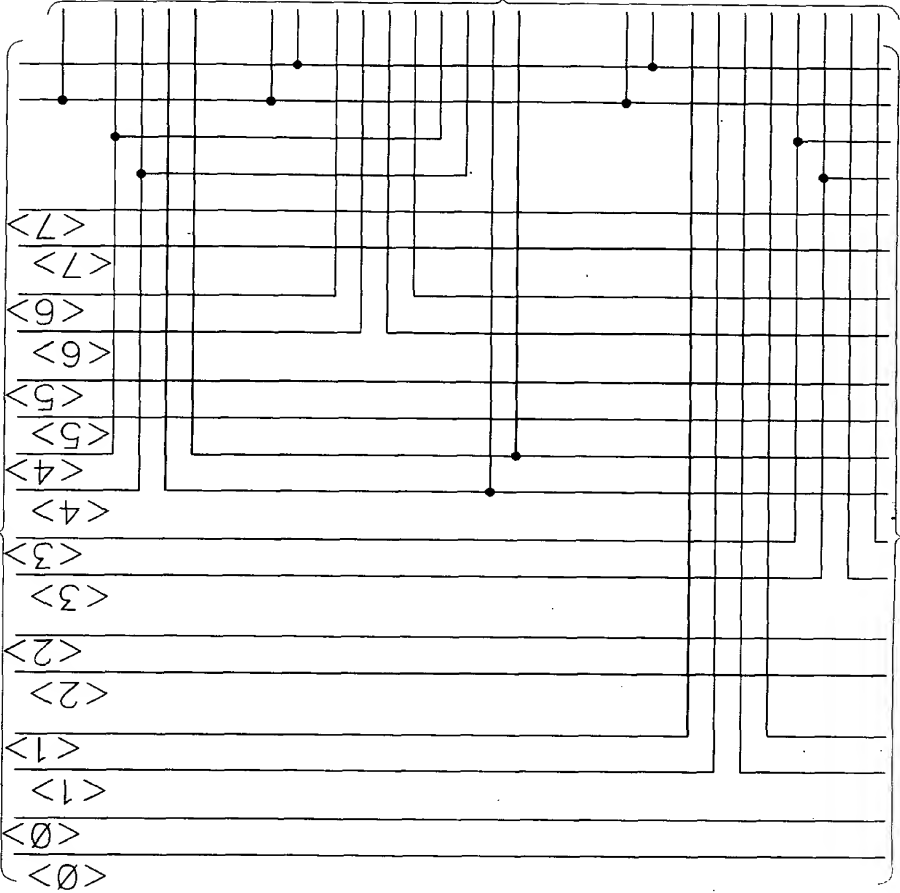


FIG. 27-3

TO FIG. 27-1



TO FIG. 27-5

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TO
FIG.
27-4

FIG. 27-3

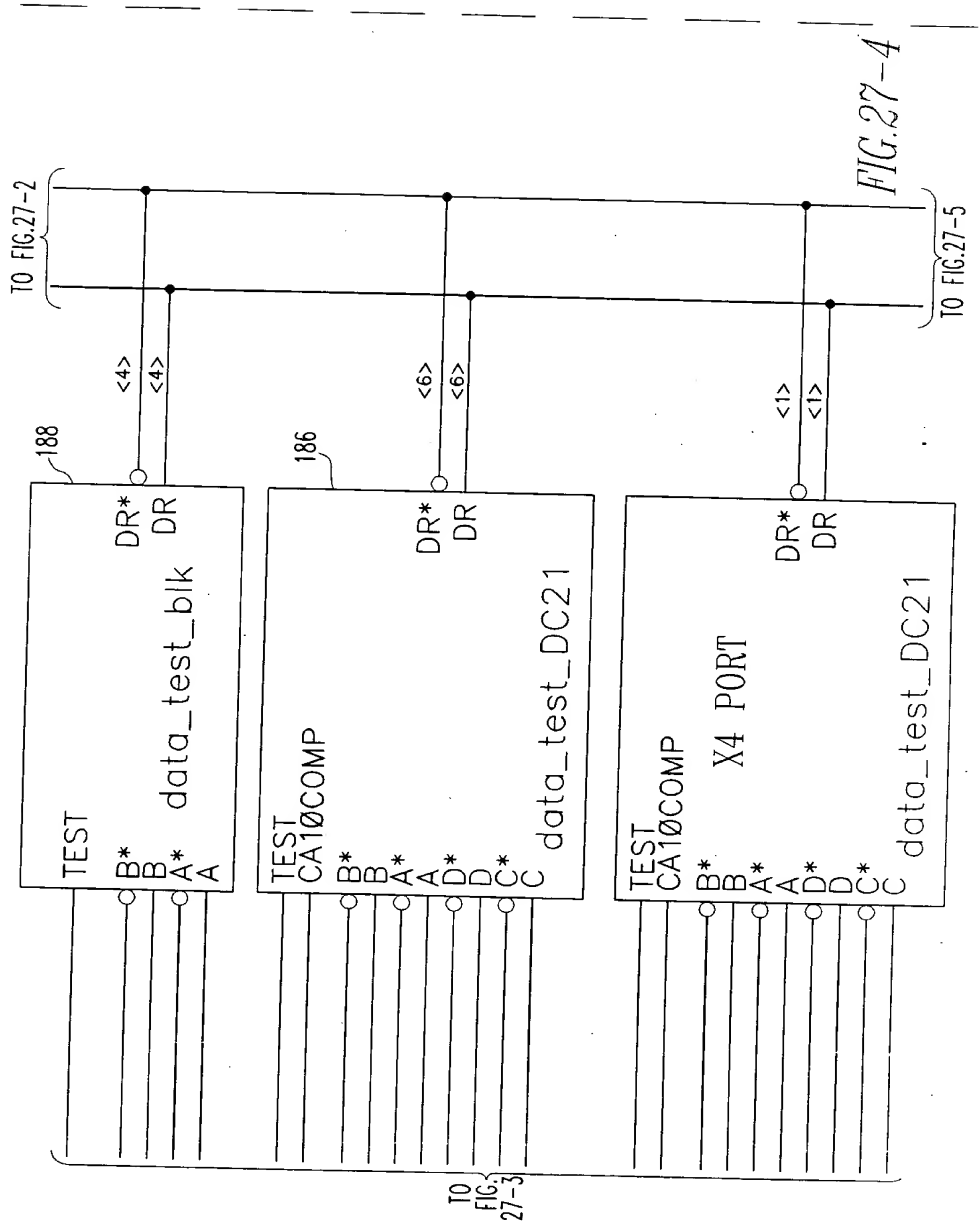
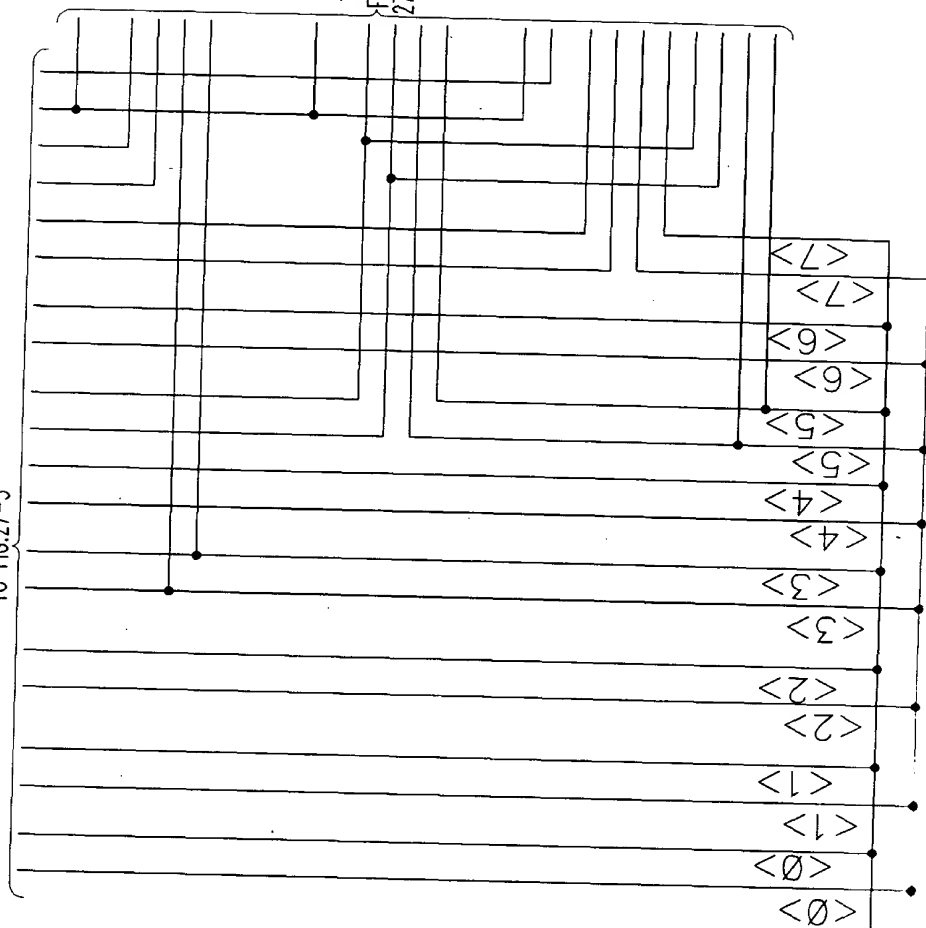


FIG. 27-5

TO FIG. 27-3



TO
FIG.
27-6

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TDR<0:7>

TDR<8:15>

FIG. 27-6

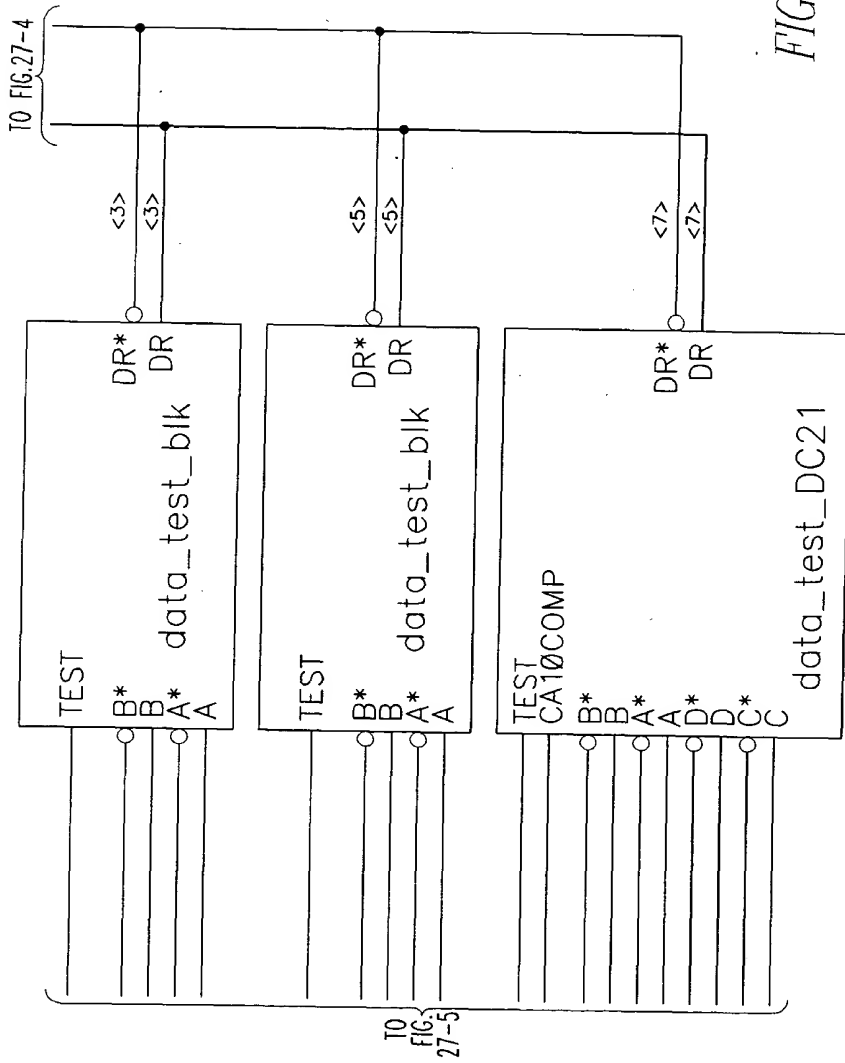


FIG. 27-6

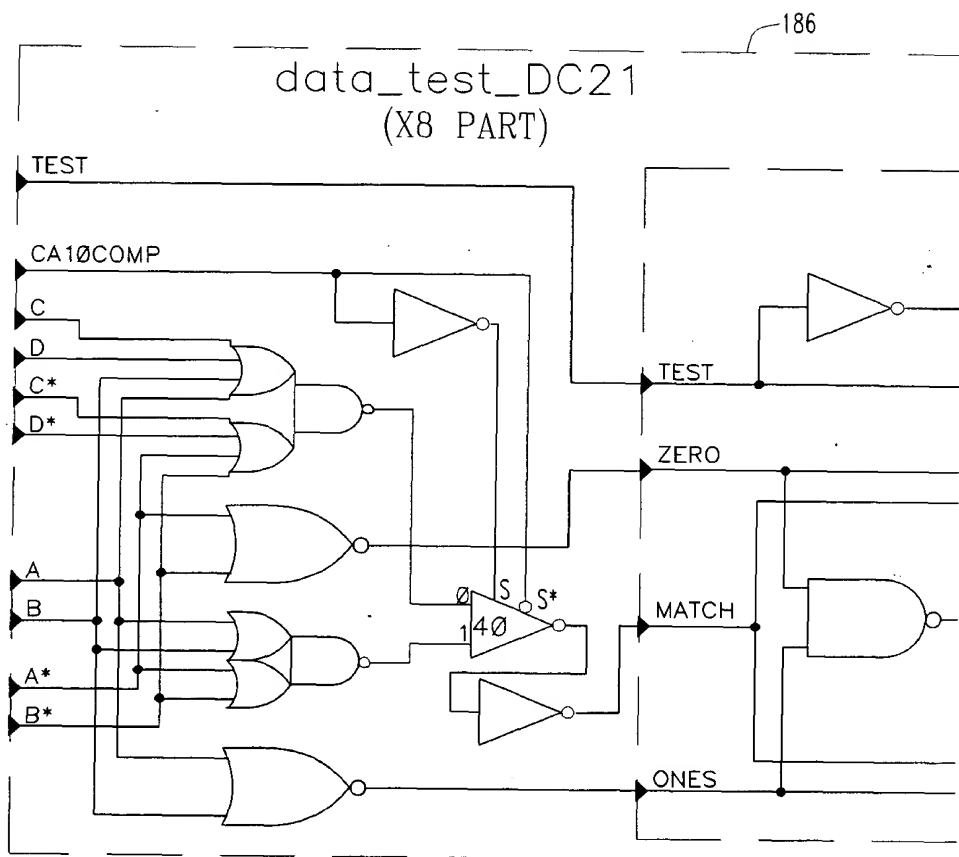


FIG. 28-1

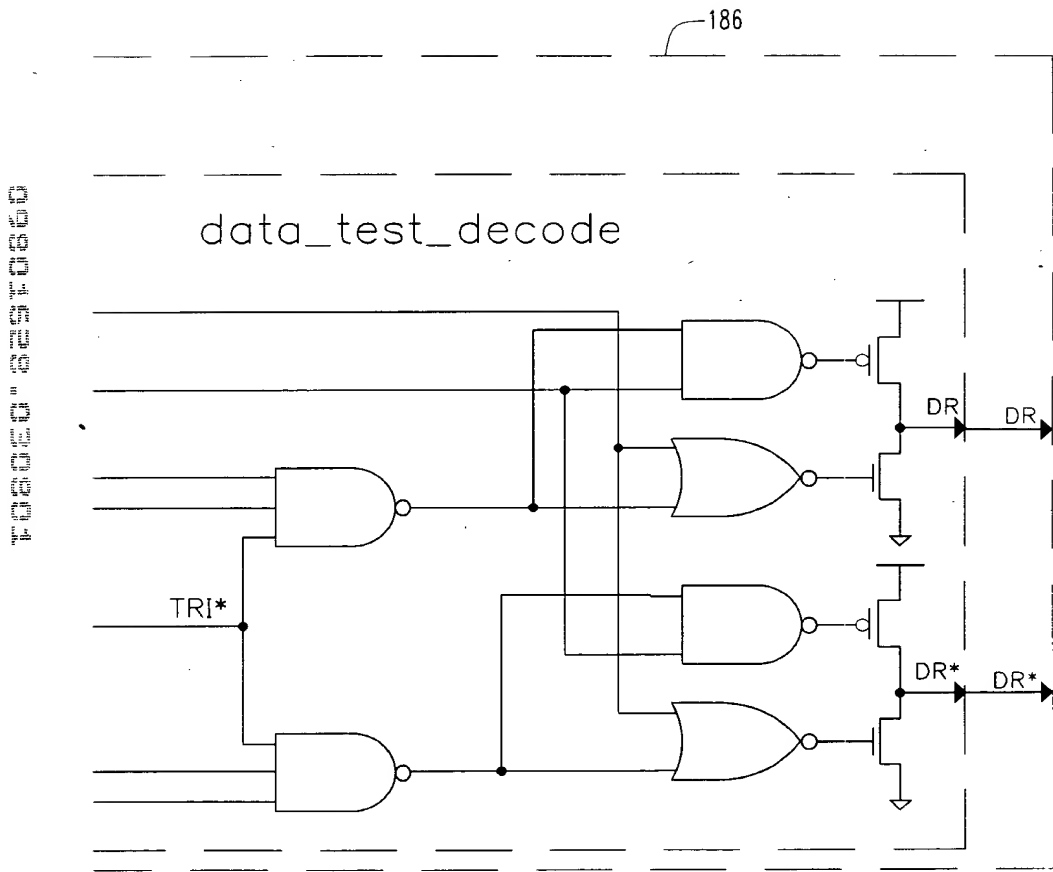


FIG. 28-2

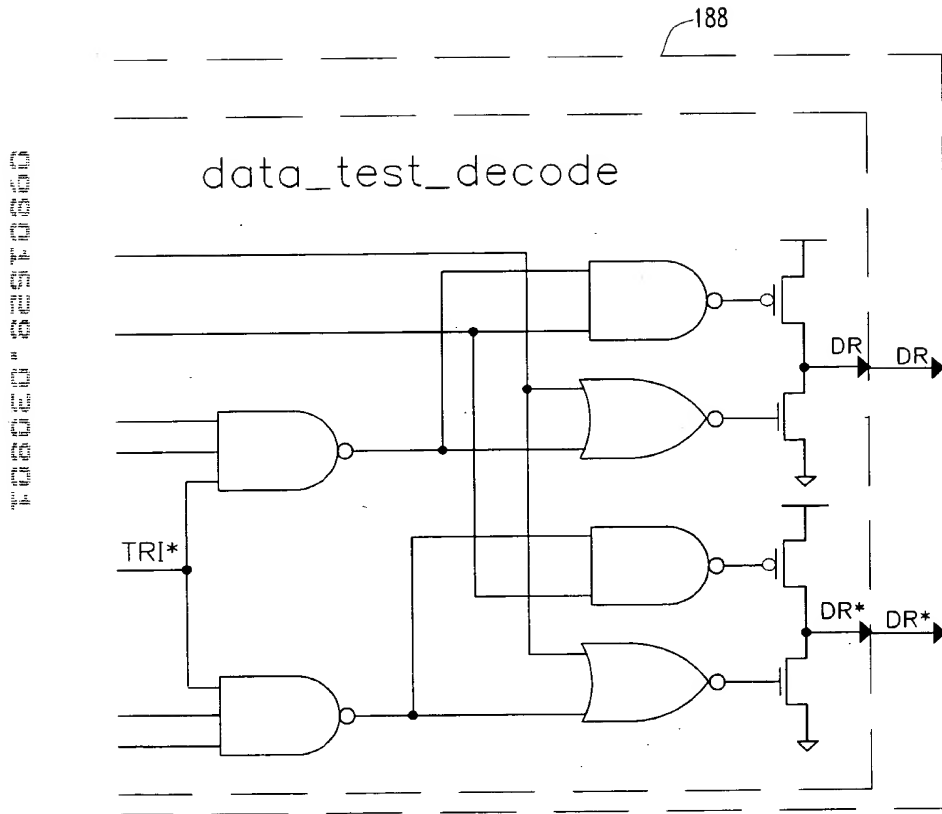
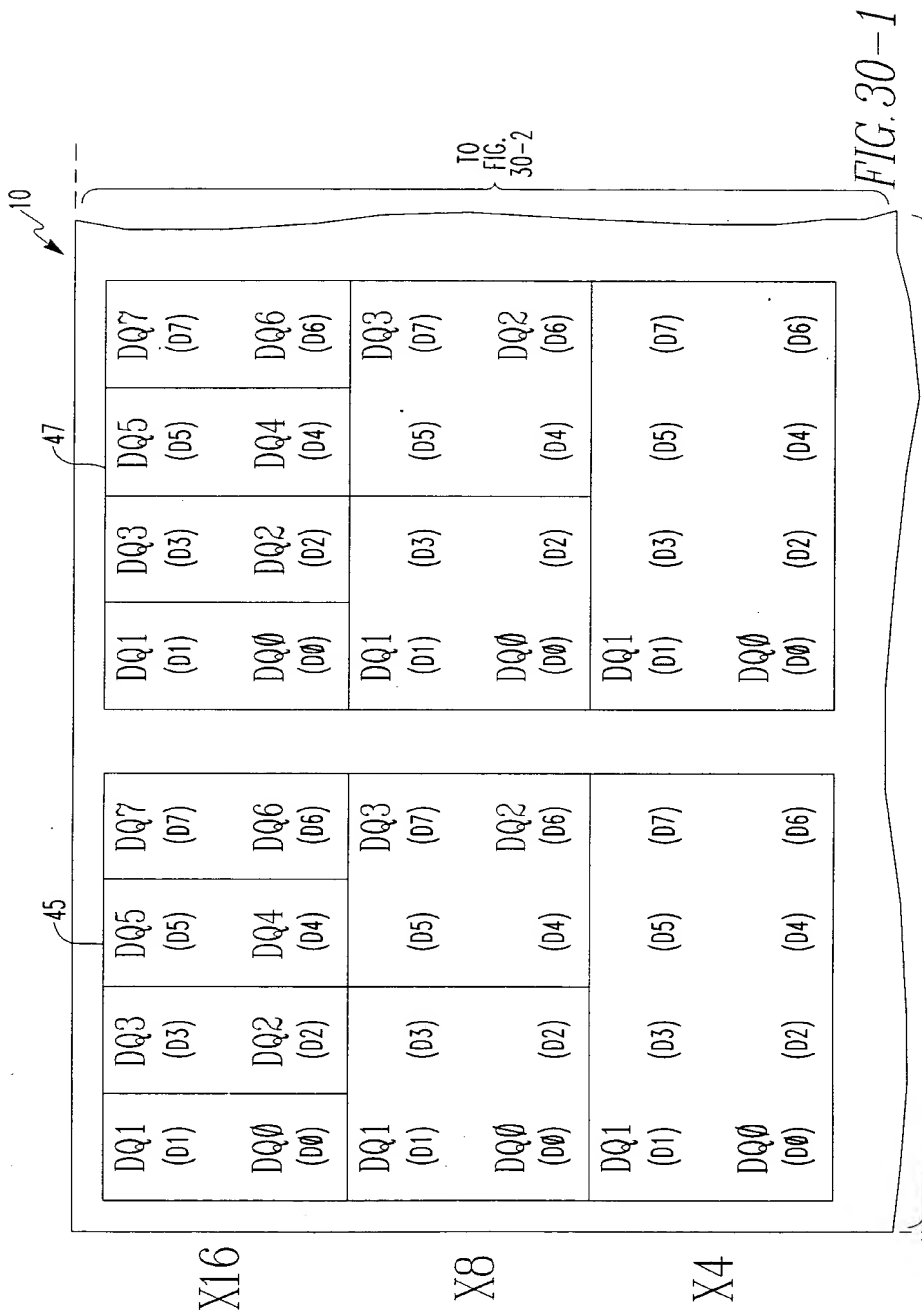
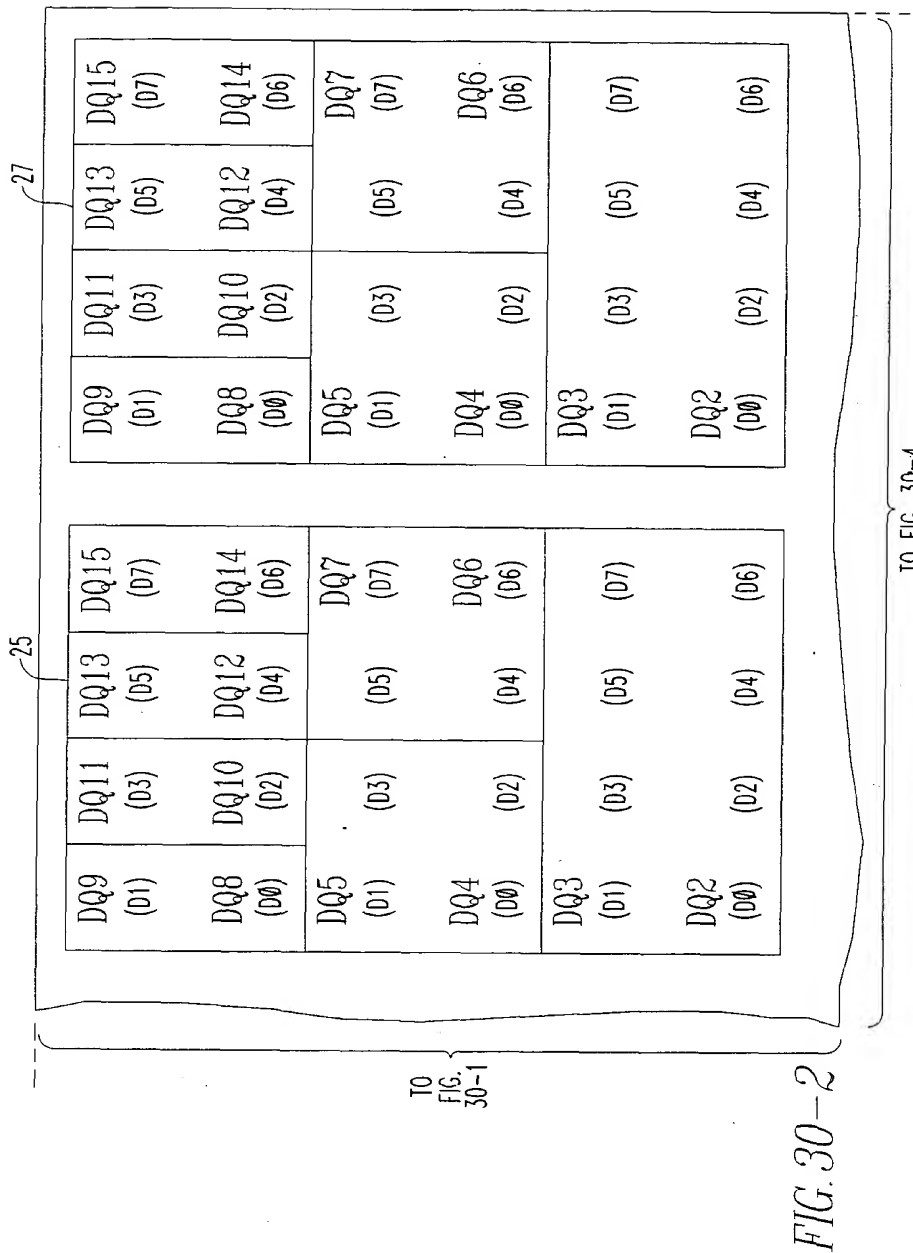


FIG. 29-2



TO FIG. 30-3



TO FIG. 30-1

	38				40			
	(00) DQ0	(02) DQ2	(04) DQ4	(06) DQ6	(01) DQ1	(03) DQ3	(05) DQ5	(07) DQ7
X4	(00) DQ0	(02) DQ2	(04) DQ4	(06) DQ6	(01) DQ1	(03) DQ3	(05) DQ5	(07) DQ7
X8	(00) DQ0	(02) DQ2	(04) DQ4	(06) DQ6	(01) DQ1	(03) DQ3	(05) DQ5	(07) DQ7
X16	(00) DQ0	(02) DQ2	(04) DQ4	(06) DQ6	(01) DQ1	(03) DQ3	(05) DQ5	(07) DQ7

TO
FIG.
30-4

FIG. 30-3

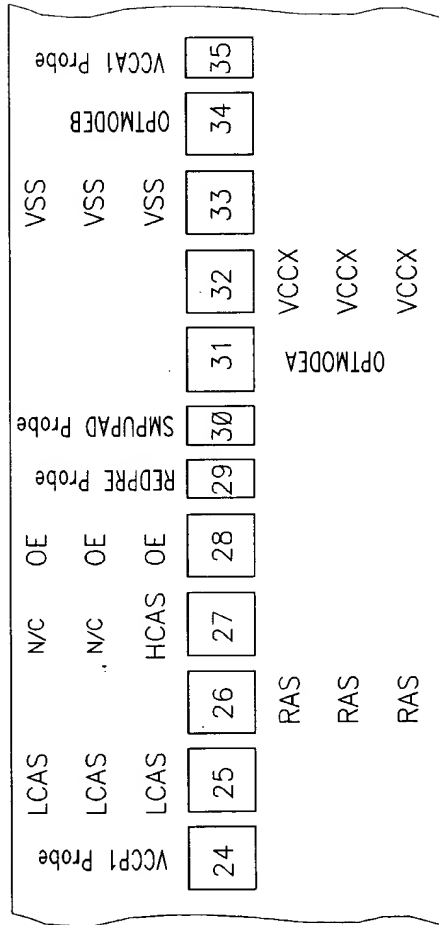
TO FIG. 30-2

(00) (02) (04) (06) DQ2			(01) (03) (05) (07) DQ3		
(00) (02) (04) (06) DQ4			(01) (03) (05) (07) DQ5		
(00) (02) (04) (06) DQ8			(01) (03) (05) (07) DQ9		
(00) (02) (04) (06) DQ10			(01) (03) (05) (07) DQ11		
(00) (02) (04) (06) DQ12			(01) (03) (05) (07) DQ13		
(00) (02) (04) (06) DQ14			(01) (03) (05) (07) DQ15		

(00) (02) (04) (06) DQ2			(01) (03) (05) (07) DQ3		
(00) (02) (04) (06) DQ4			(01) (03) (05) (07) DQ5		
(00) (02) (04) (06) DQ8			(01) (03) (05) (07) DQ9		
(00) (02) (04) (06) DQ10			(01) (03) (05) (07) DQ11		
(00) (02) (04) (06) DQ12			(01) (03) (05) (07) DQ13		
(00) (02) (04) (06) DQ14			(01) (03) (05) (07) DQ15		

TO
FIG.
30-3

FIG. 30-1



TO FIG. 31B2

FIG. 31B1

TO FIG. 31B1

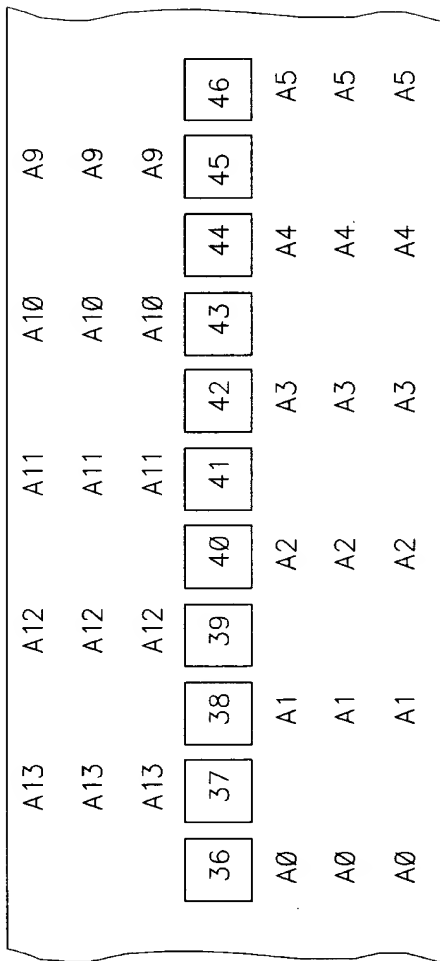


FIG. 31B2

TO FIG. 31C1

N/C	N/C	N/C	N/C	VSSQ	VBB
N/C	DQ6	N/C	N/C	VSSQ	VBB
VSSQ	DQ14	DQ13	DQ12	VSSQ	VBB
60	61	62	63	64	65
DQ9	DQ10	VCCQ	DQ11	VCCQ	VBB
DQ5	N/C	VCCQ	N/C	VCCQ	VBB
DQ3	N/C	VCCQ	N/C	VCCQ	VBB

FIG. 31C2

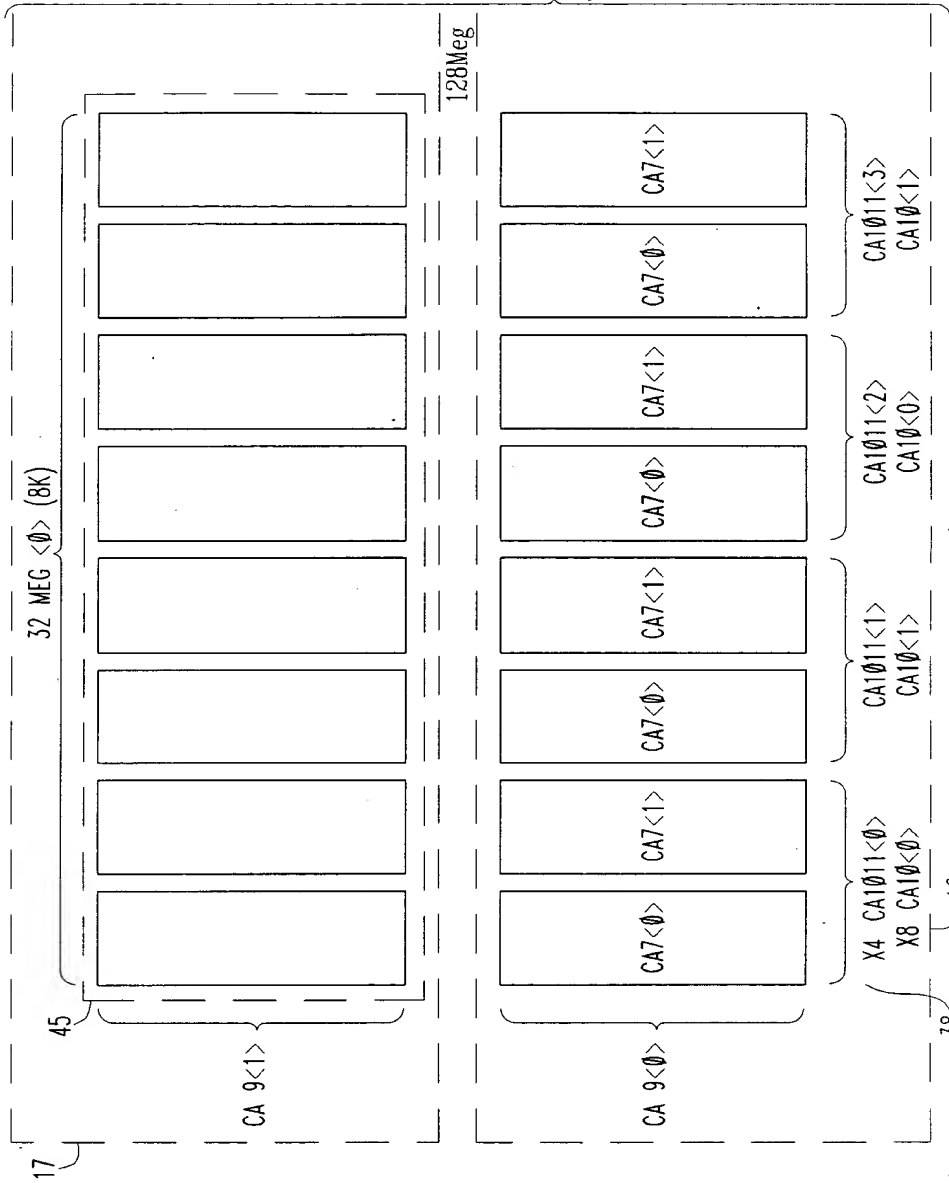
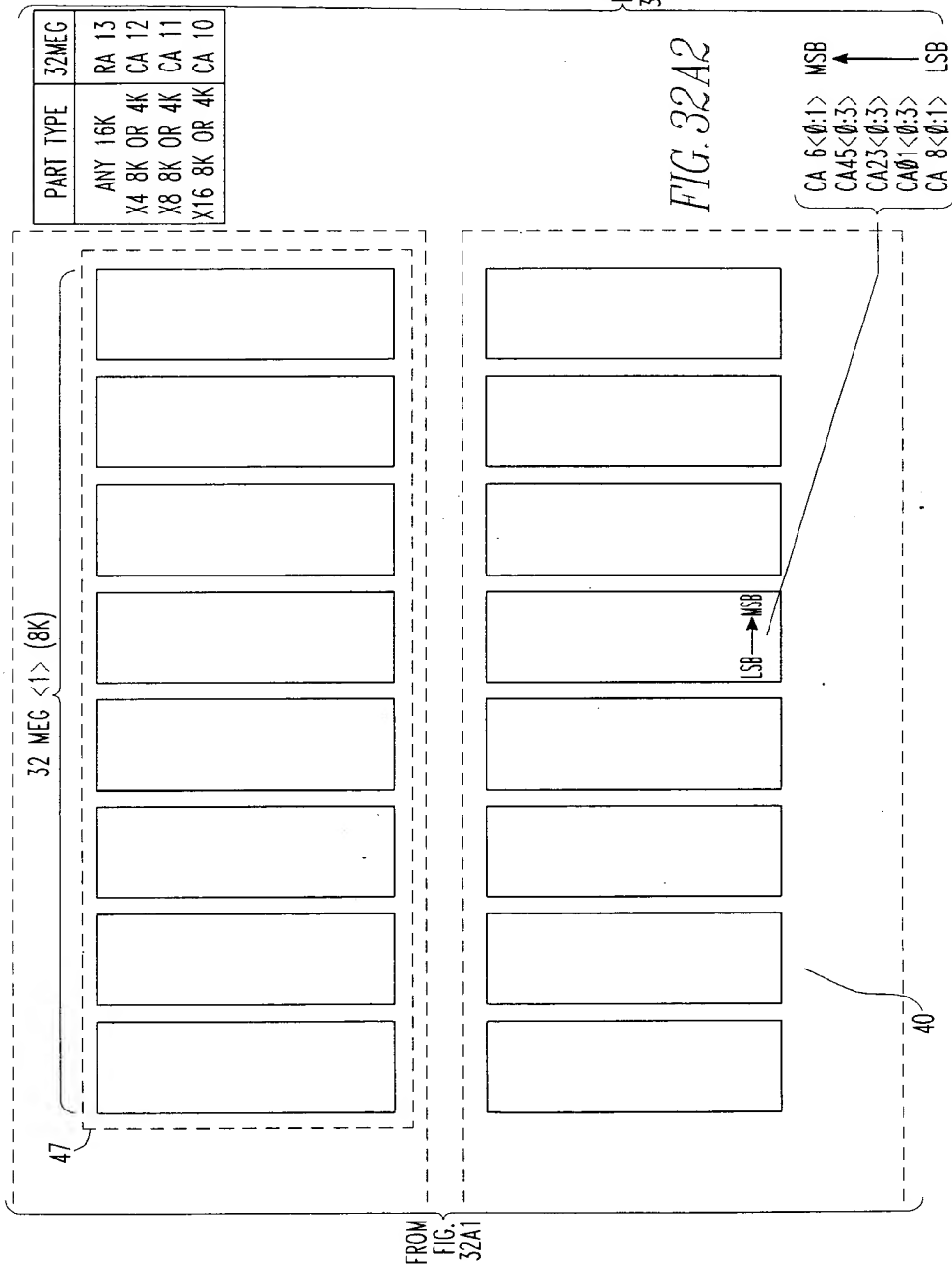
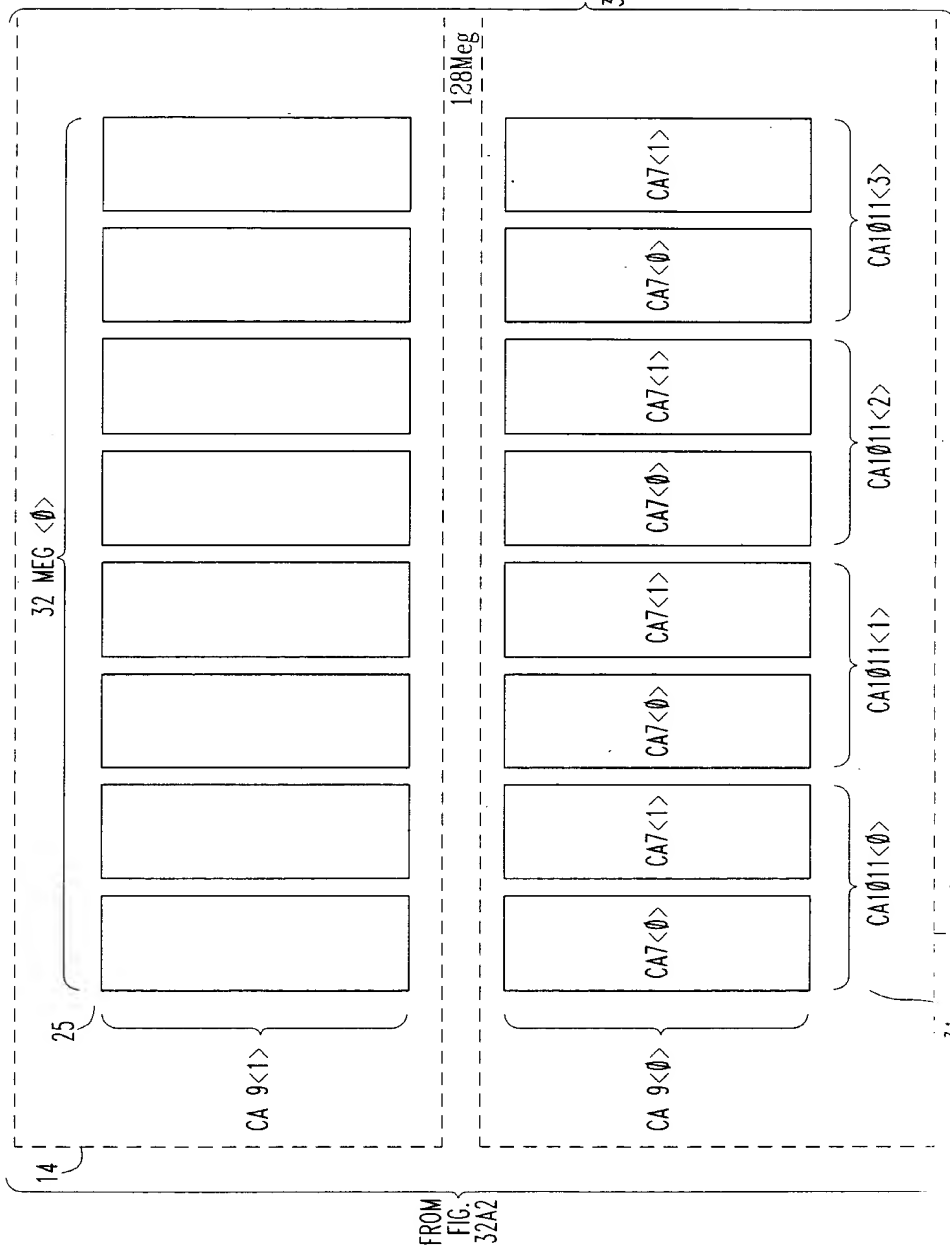


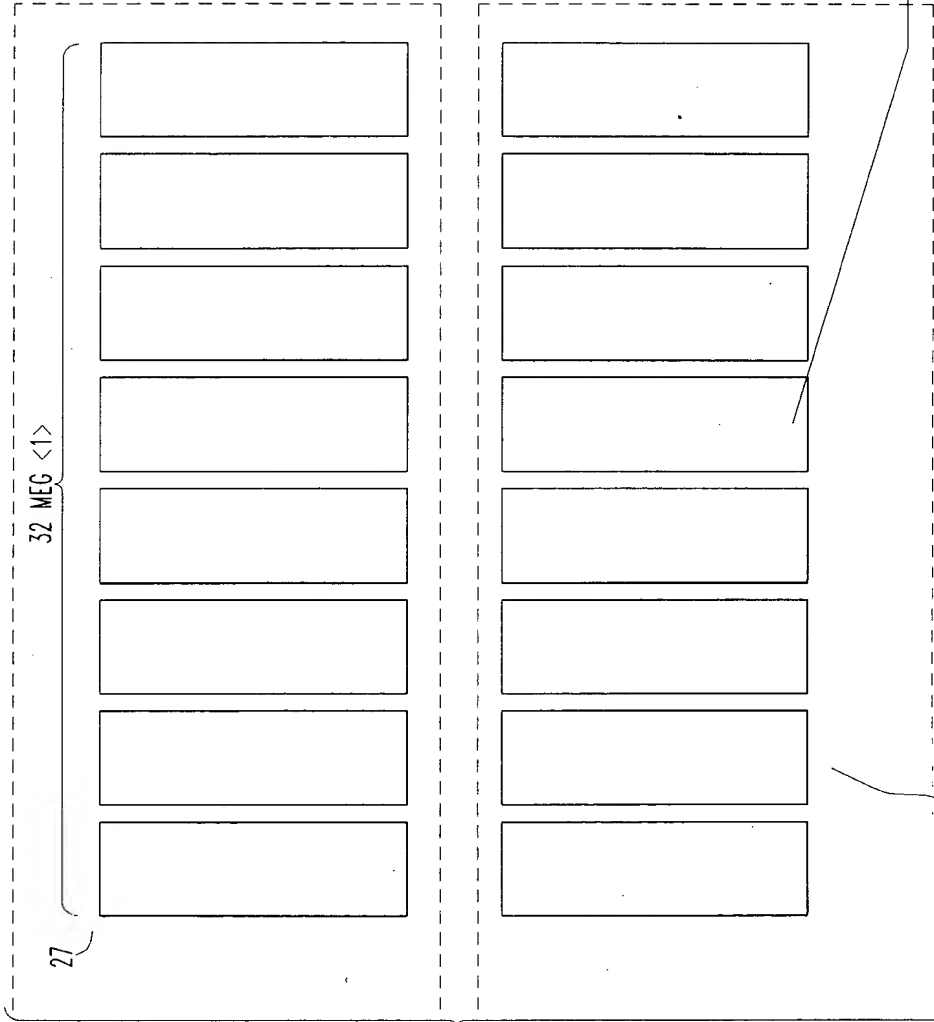
FIG. 32A1





FROM
FIG.
32A2

FIG. 32A3



FROM
FIG.
32A3

FIG. 32A4

CA 6<0:1> MSB
CA45<0:3>
CA23<0:3>
CA01<0:3>
CA 8<0:1> LSB

108000"02510000

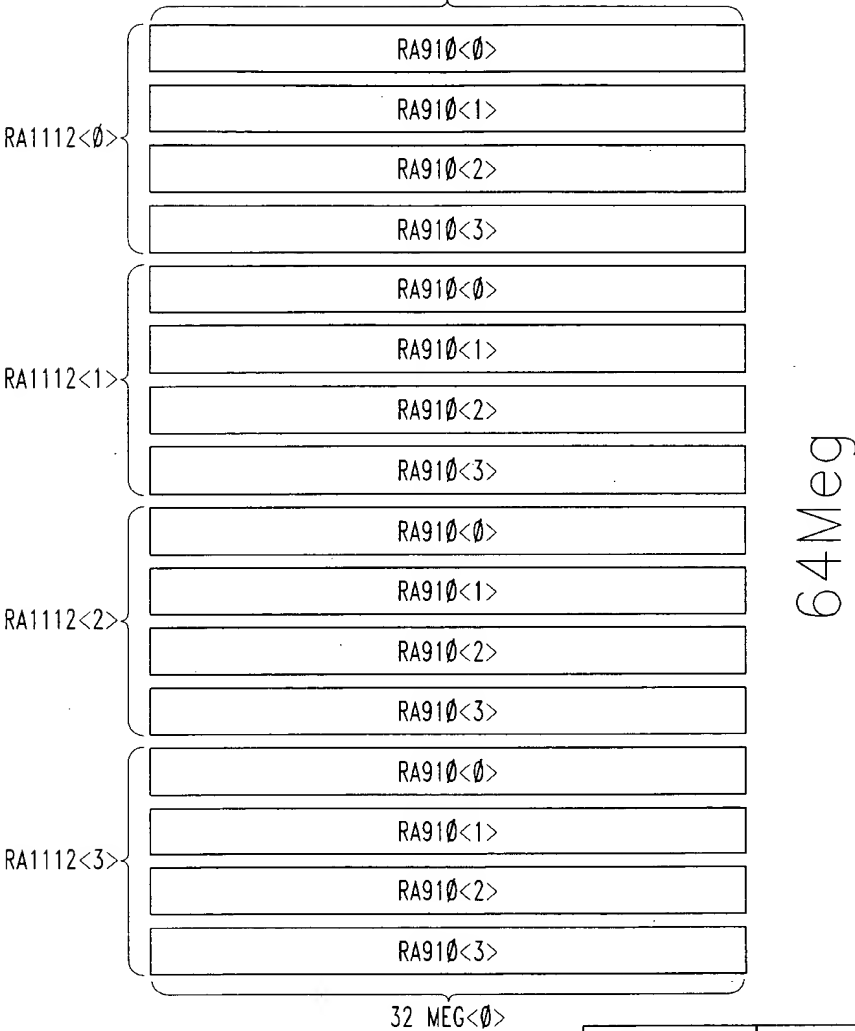


FIG. 32B1

PART TYPE	32MEG
ANY 16K	RA_13
X4 8K OR 4K	CA_12
X8 8K OR 4K	CA_11
X16 8K OR 4K	CA_10

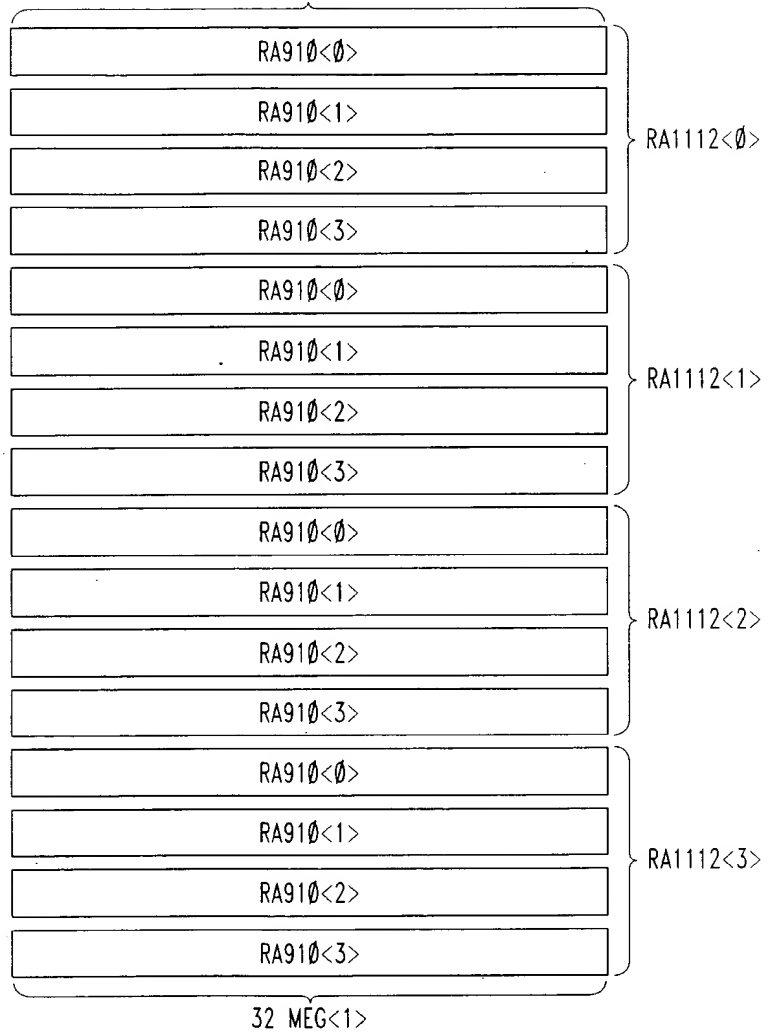
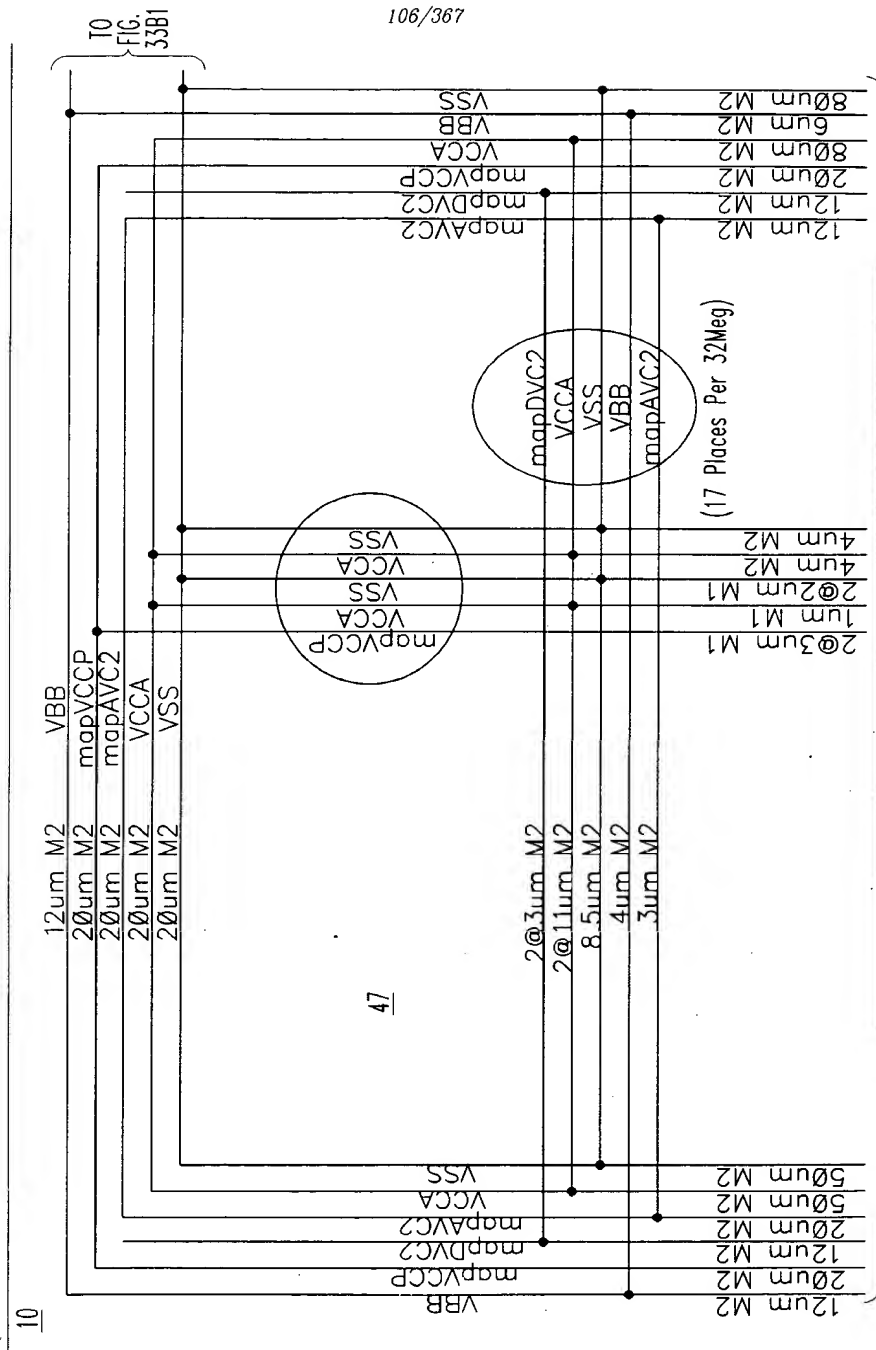
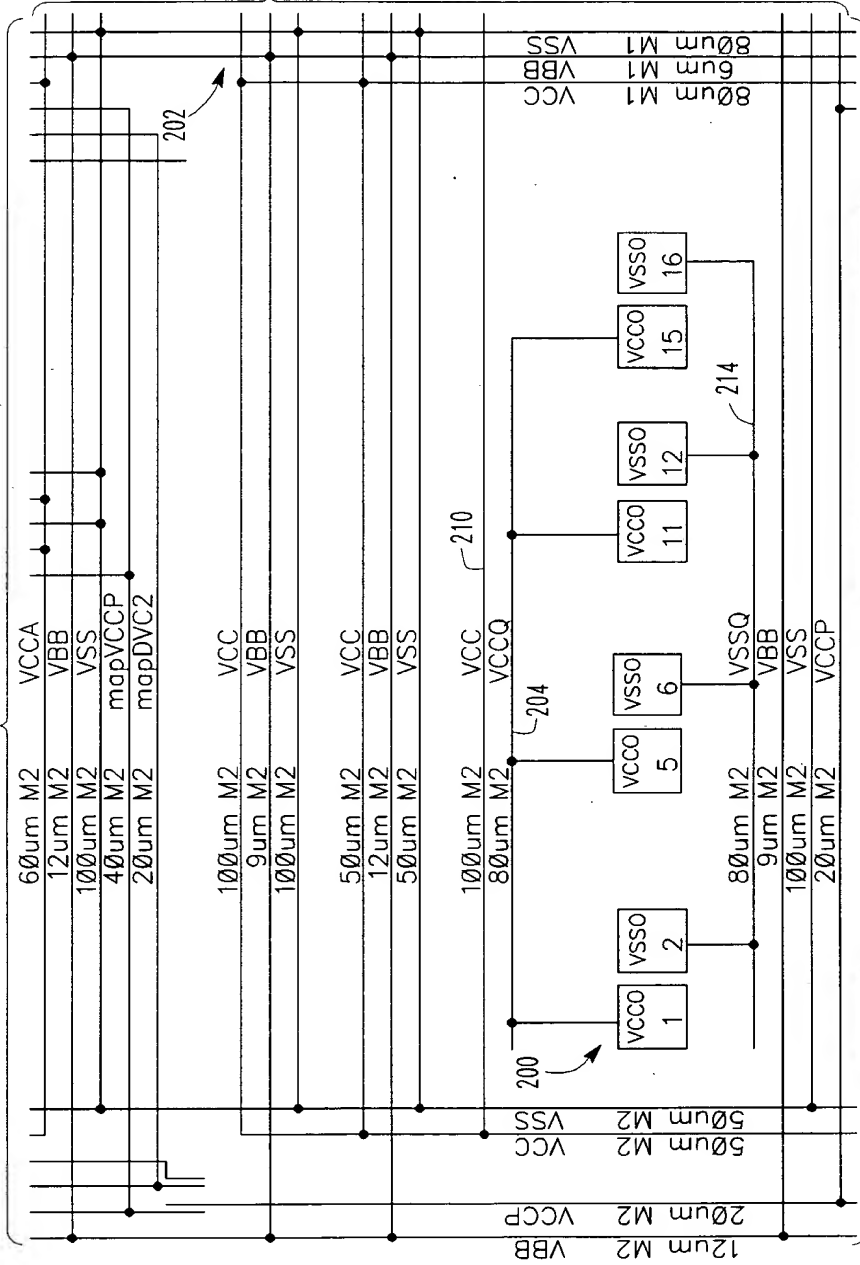


FIG. 32B2



TO FIG. 33A2

FROM FIG. 33A1

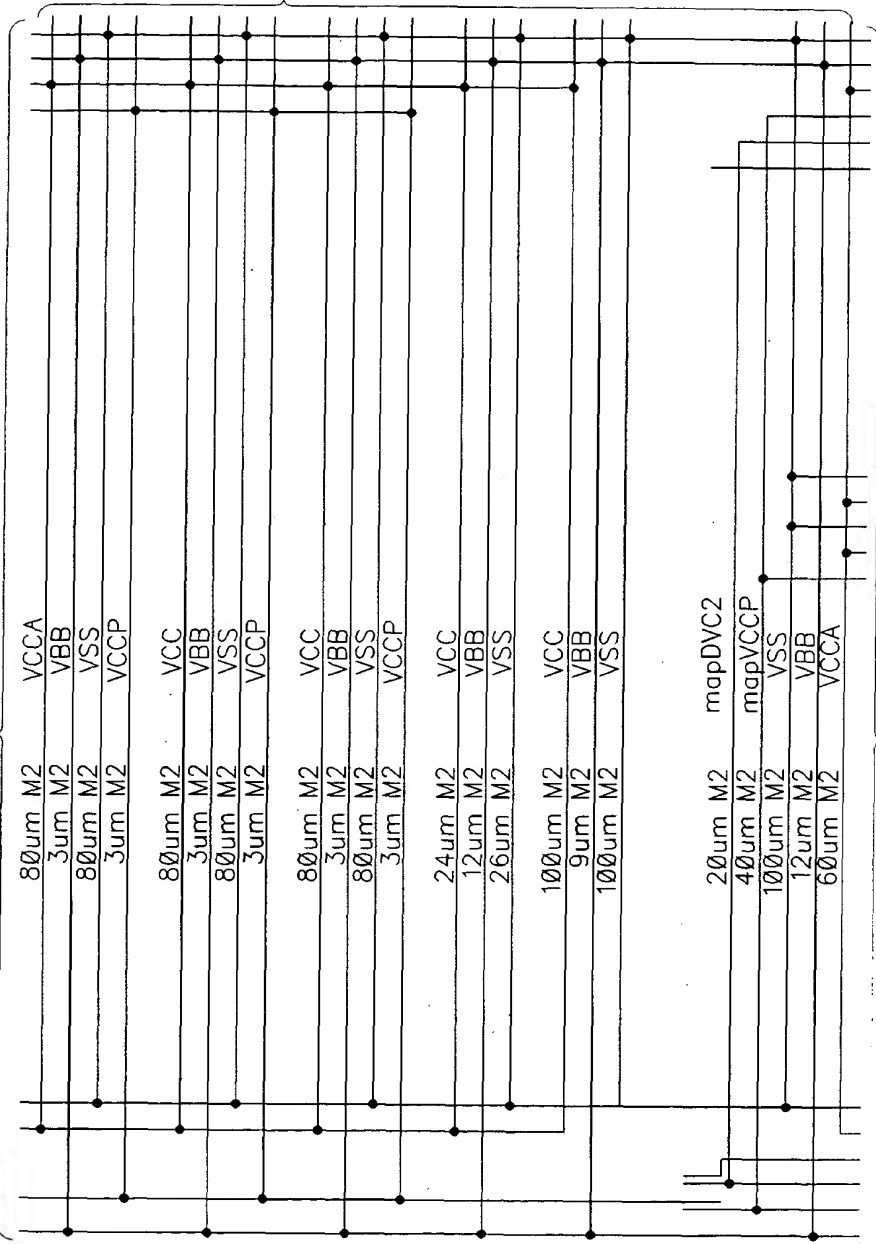


TO FIG. 33A3

FIG. 33A2

TO
-FIG.
33B5

FROM FIG. 33A2



TO FIG. 33A4

FIG. 33A3

40

3um M2
8.5um M2
2@11um M2
2@3um M2
4um M2

(9 Places Per 32Meg)

20um	M2	VSS
20um	M2	VCCA
20um	M2	mapAV
20um	M2	mapVC
12um	M2	VBB

Label	Value
mapAVC2	12um
mapDV2	12um
mapVCCP	20um
VCCA	80um
VBB	6um
VSS	80um

(17 Places Per 32Meg)

mapAVC2
VSS
VCCA
mapDVC2
VBB

mapVCCP	VCCA	VSS	VCCA	VSS
---------	------	-----	------	-----

Label	Value
VBB	120µm M2
mopVCP	20µm M2
mopDVCP	12µm M2
mopAVCP	20µm M2
VCA	50µm M2
VSS	50µm M2

 $\frac{M2}{M1}$

M2	
M2	

$$\frac{M_2}{M_2}$$

M2

M2

M2	
M1	

LN	LN
----	----

0

40

M2
$$\frac{M_2}{M_1}$$

M3
M2
M1

$$\frac{M_2}{M_2}$$

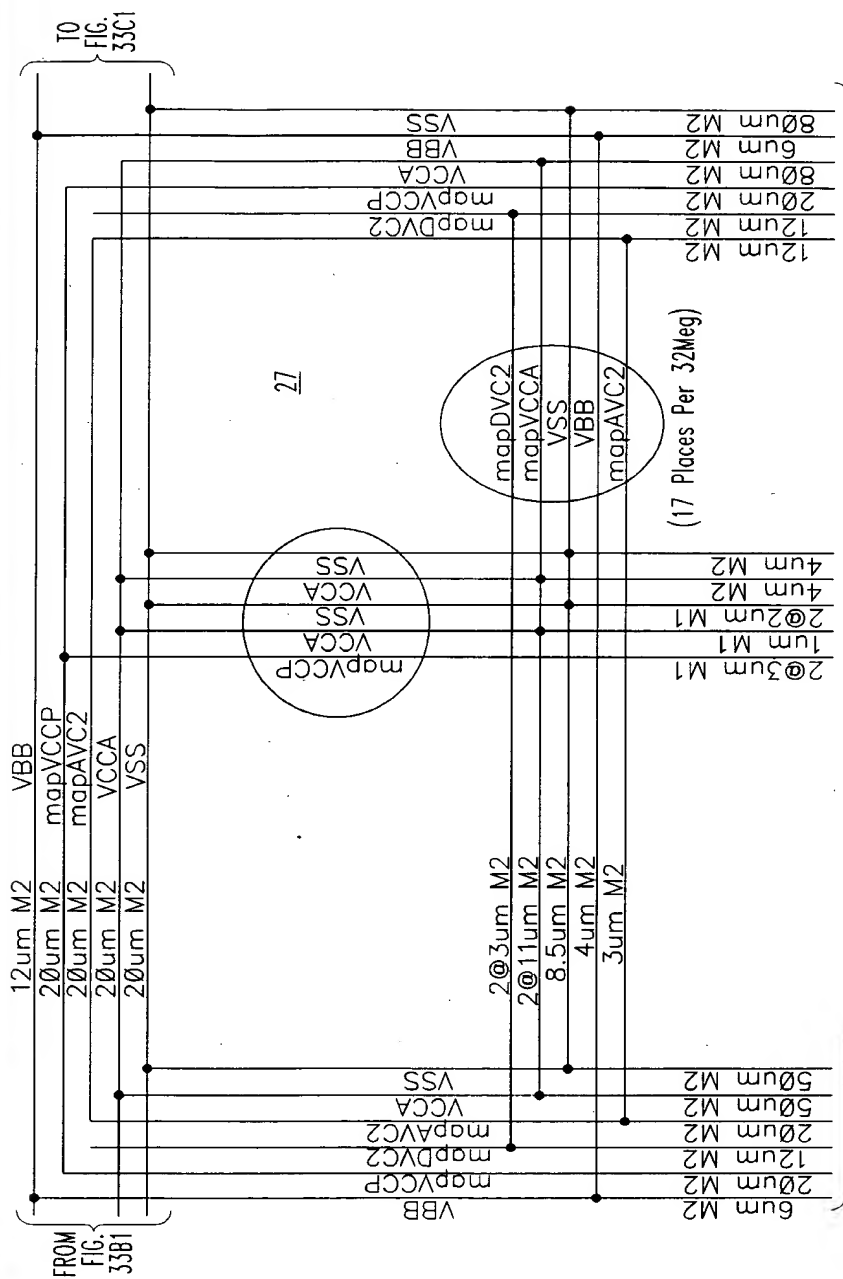
TO
FIG.
33B7

109/367

FIG. 33A4



FIG. 33B1

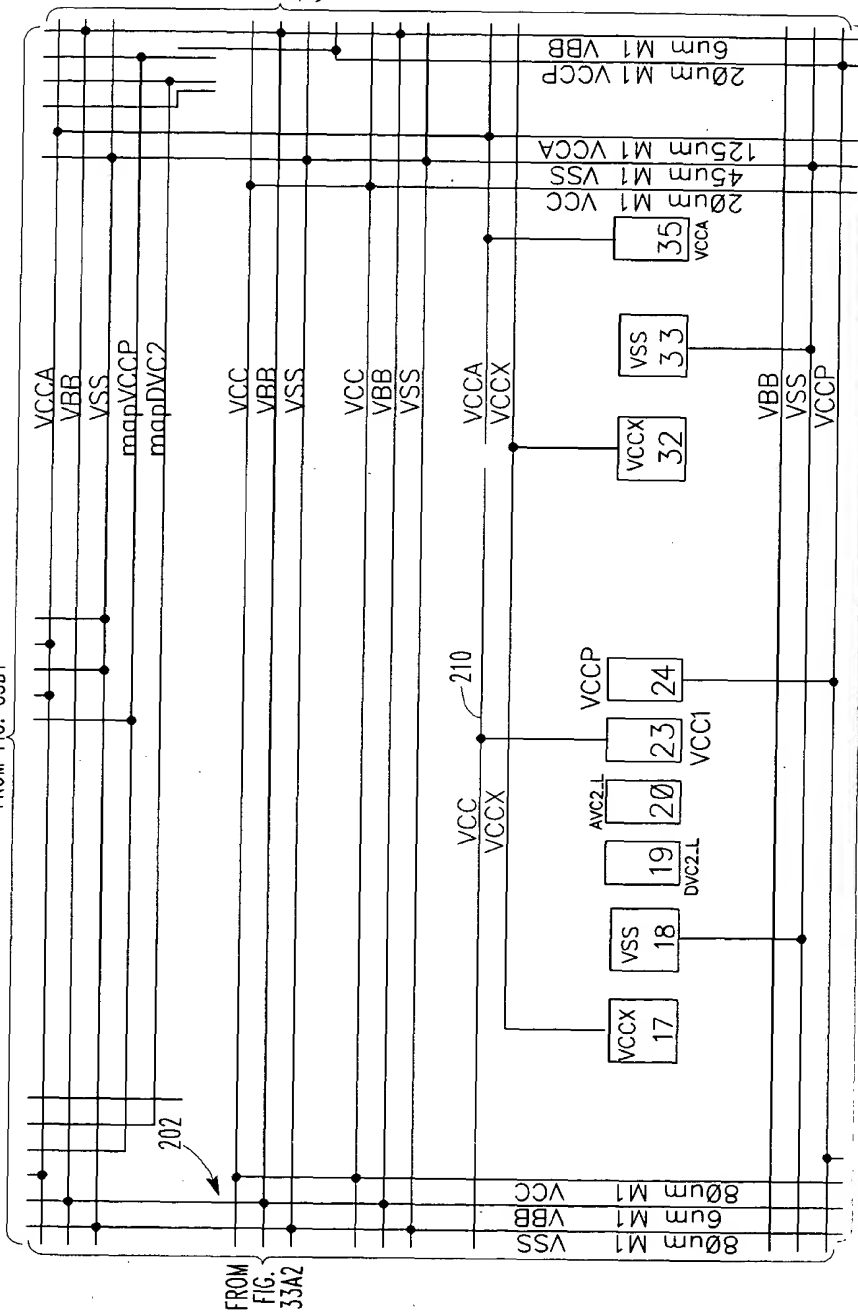


TO FIG. 33B4

FIG. 33B2

FIG. 33B3

FROM FIG. 33B1



FROM
FIG.
33A2

TO
FIG.
33B4

112/367

TO FIG. 33B3

FIG. 33B3

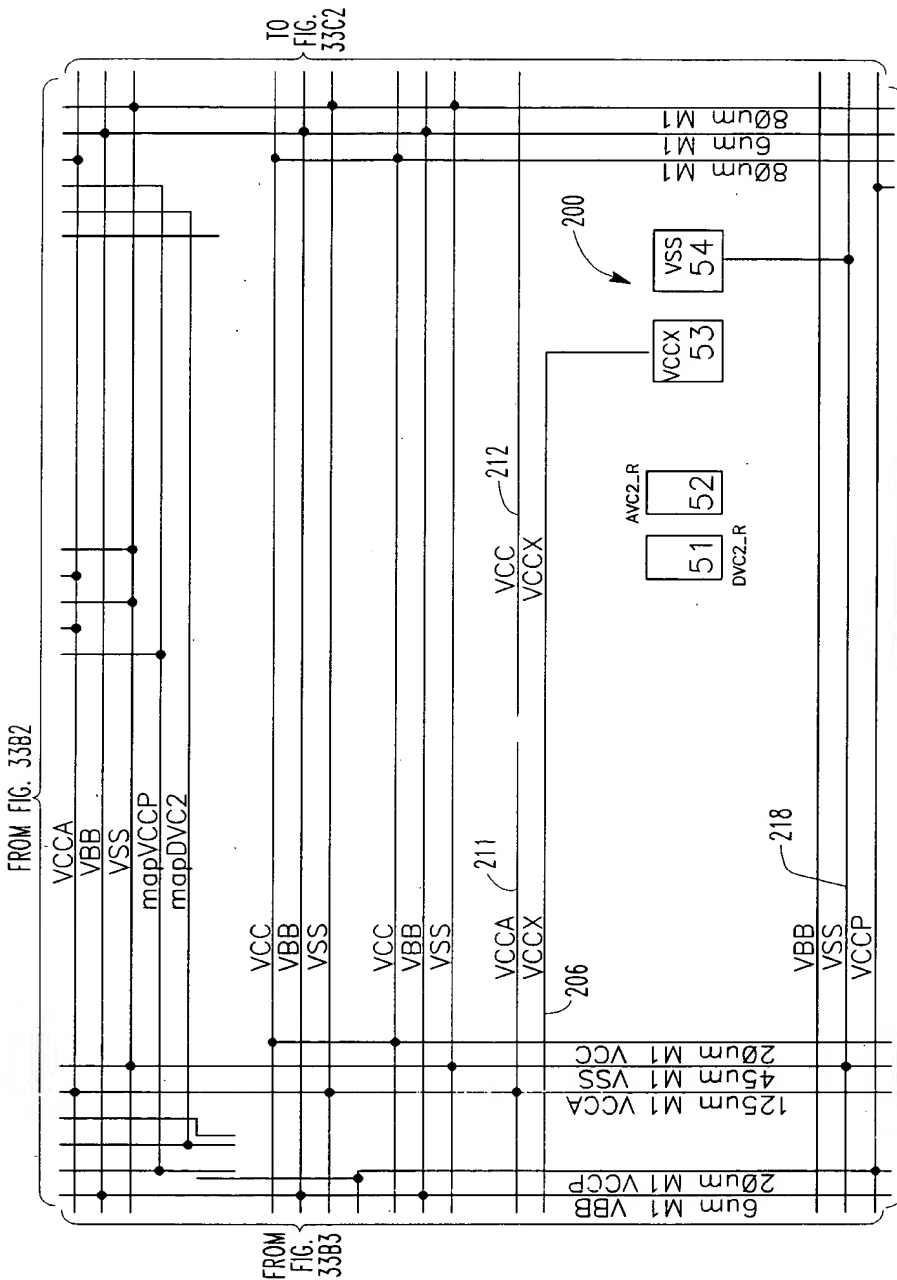
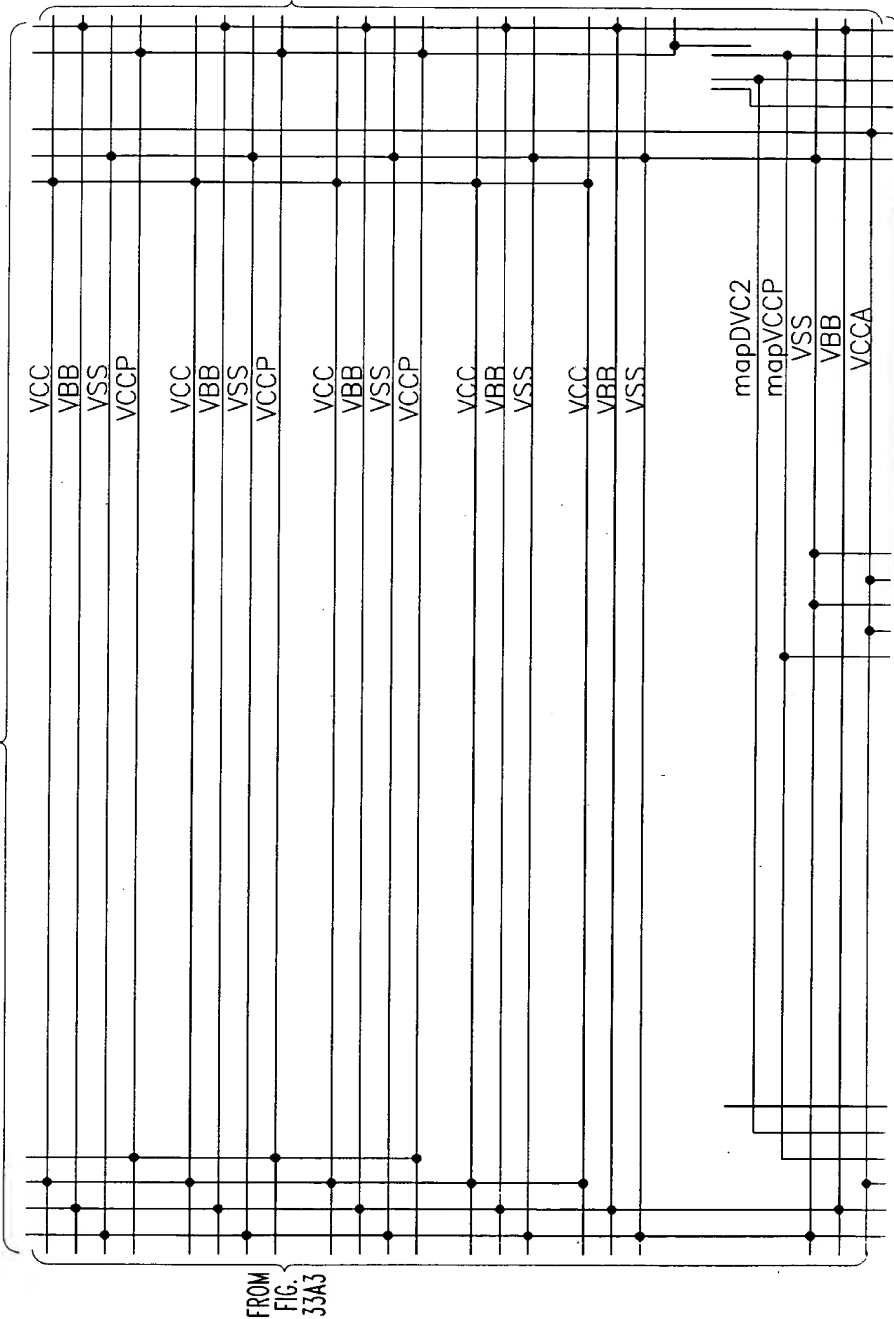


FIG. 33B4

TABLED" 62510860

FROM FIG. 33B3



TO FIG. 33B7

FIG. 33B5

FROM FIG. 33B5

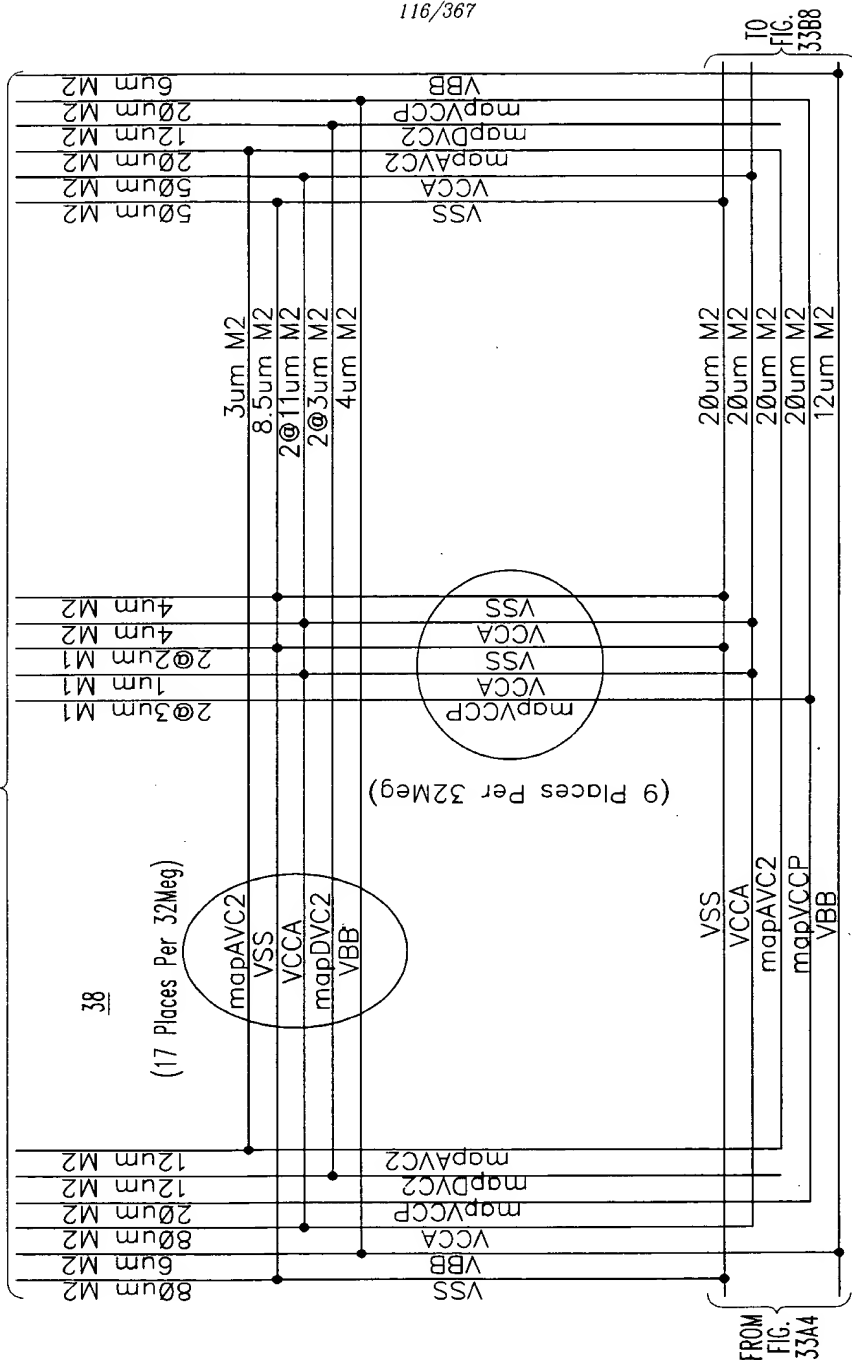


FIG. 33B7

FROM FIG. 33B6

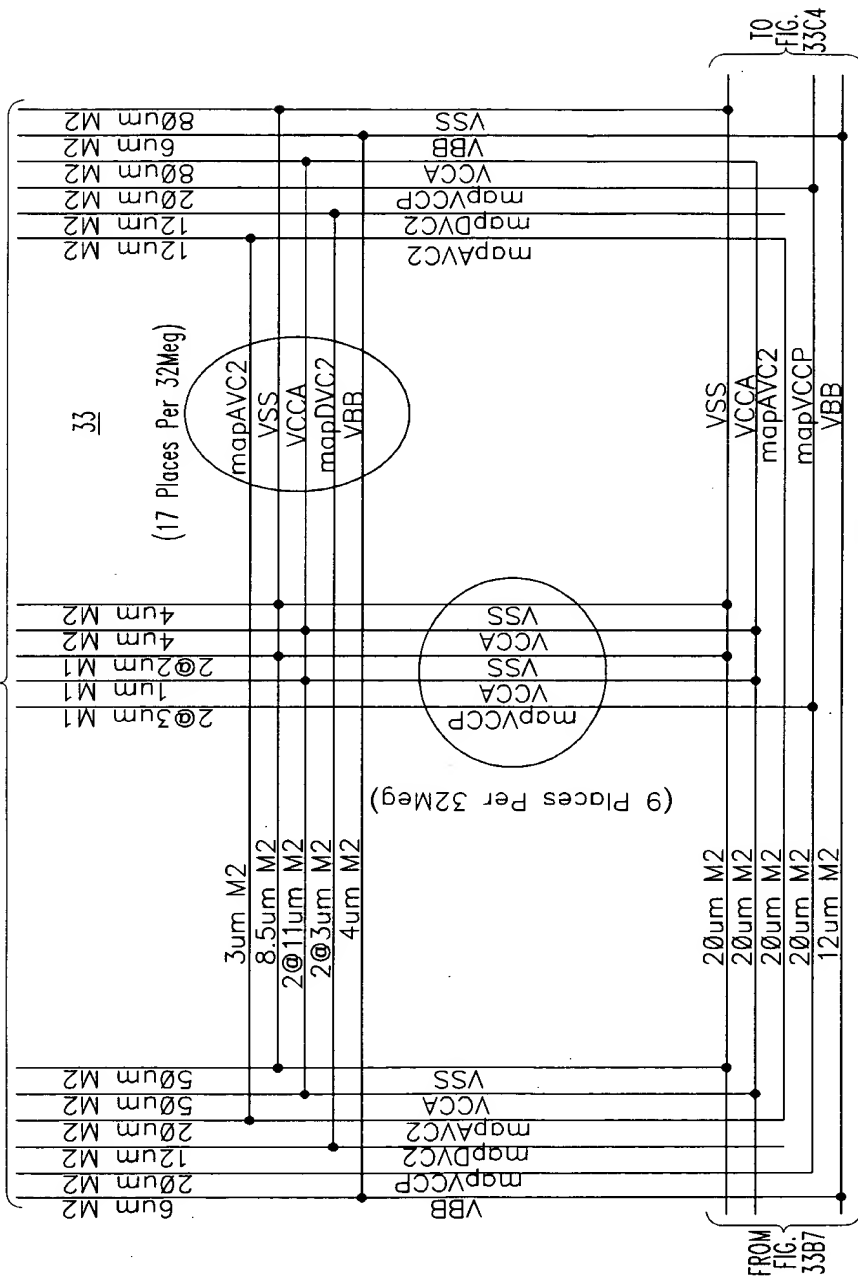
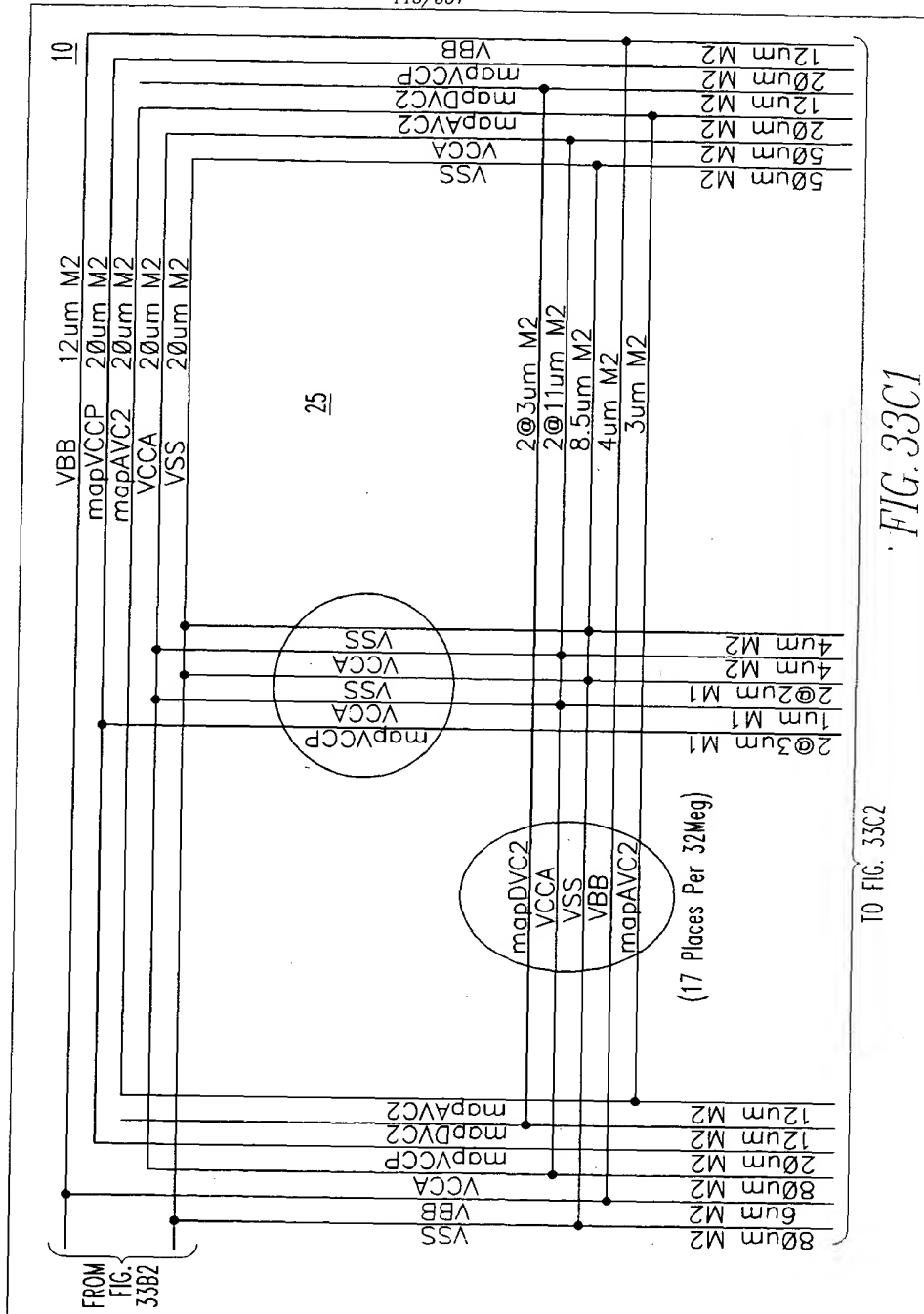
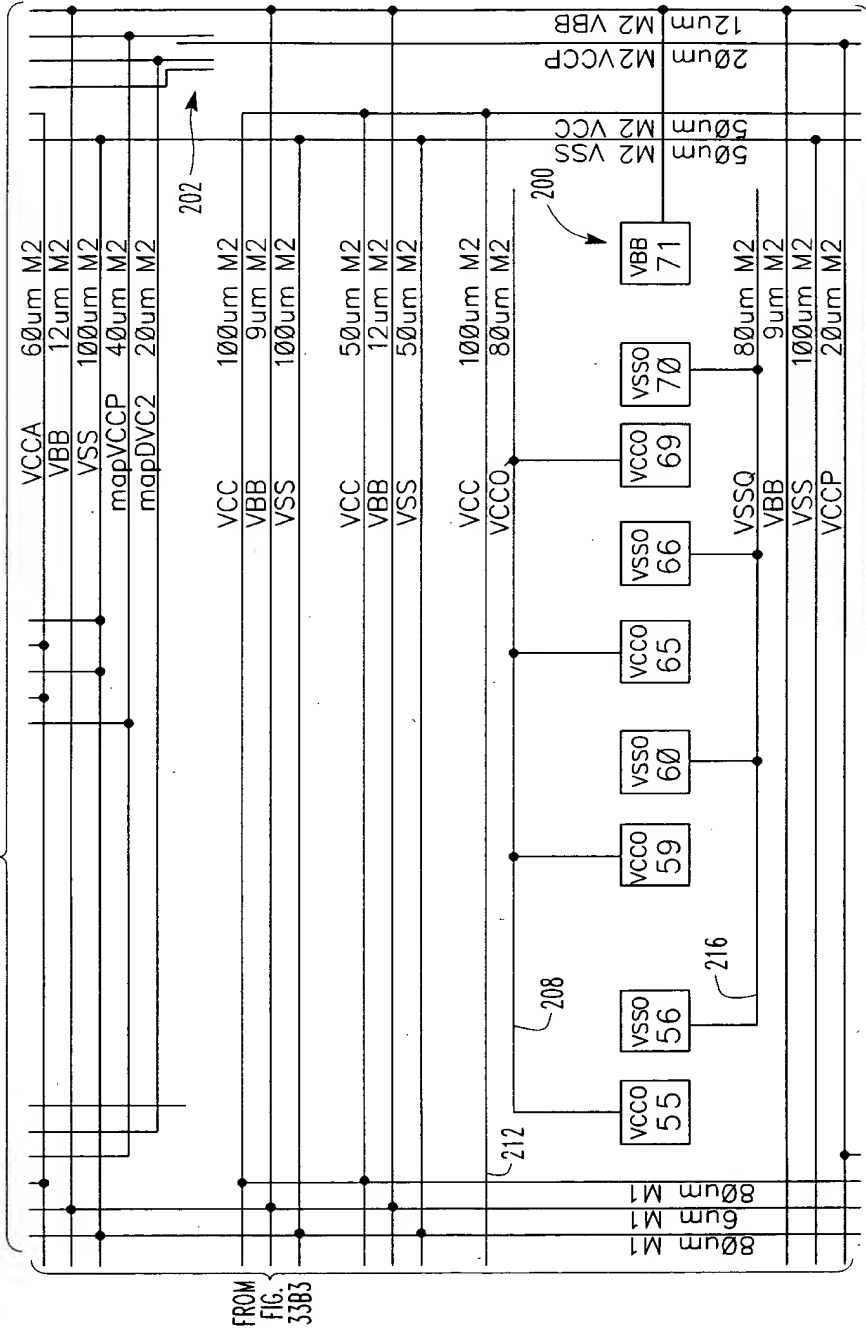


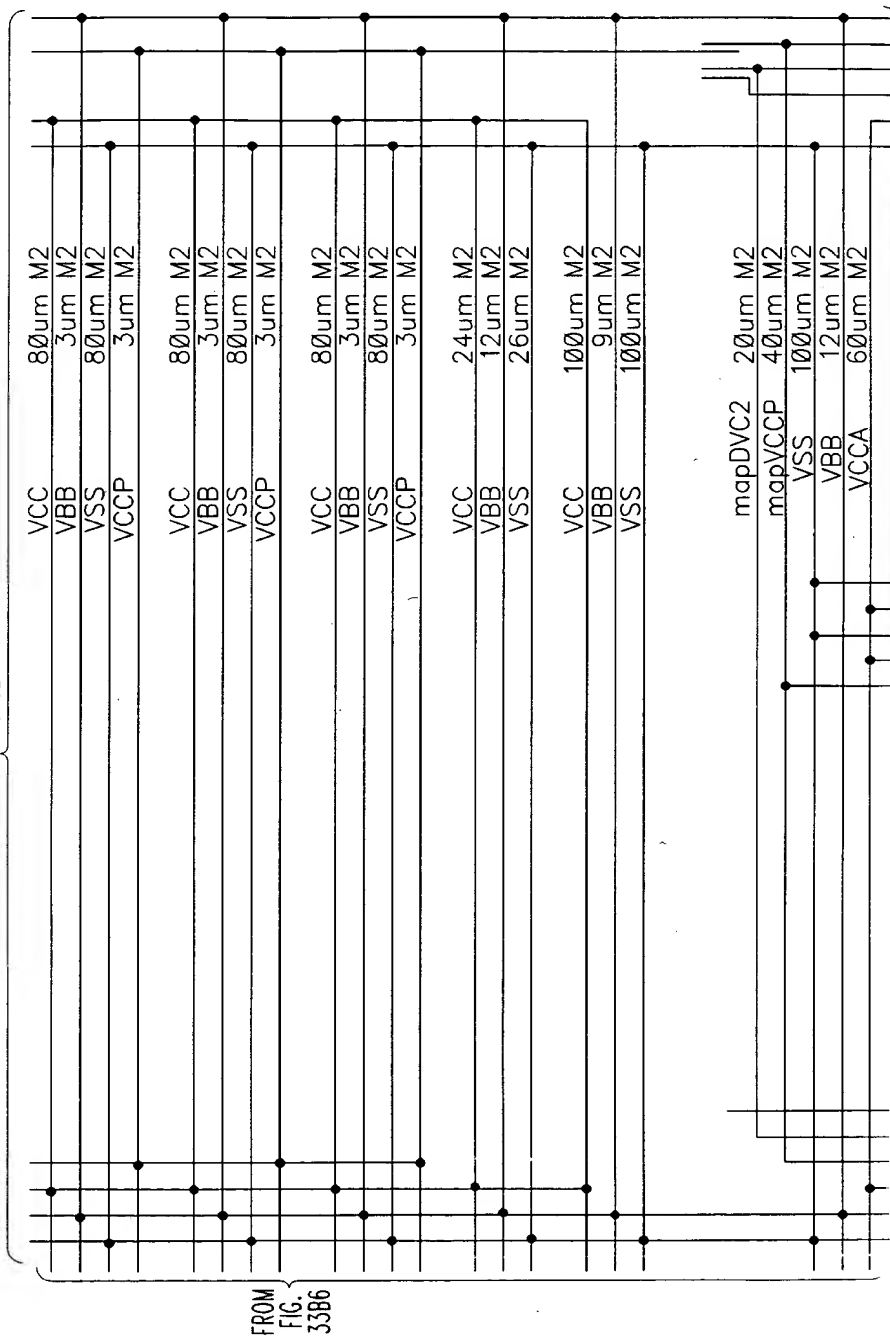
FIG. 33B8





TO FIG. 33C3 . FIG. 33C2

FROM FIG. 33C2



FROM
FIG.
33B6

TO FIG. 33C4

FIG. 33C3

The diagram illustrates a 32Mega-bit array architecture divided into two sections: "(17 Places Per 32Meg)" on the left and "(9 Places Per 32Meg)" on the right.

Left Section (17 Places Per 32Meg):

- Pins:** VSS (80um M2), VBB (6um M2), mapVCCP (80um M2), mapDVC2 (12um M2), mapAVC2 (12um M2).
- Internal Connections:**
 - VSS connects to 3um M2.
 - VBB connects to 8.5um M2.
 - mapVCCP connects to 2@11um M2.
 - mapDVC2 connects to 2@3um M2.
 - mapAVC2 connects to 4um M2.

Right Section (9 Places Per 32Meg):

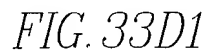
- Pins:** mapVCCP (2@3um M1), VSS (2@2um M1), VBB (4um M2), mapDVC2 (4um M2), mapAVC2 (4um M2).
- Internal Connections:**
 - mapVCCP connects to VSS, VBB, mapDVC2, and mapAVC2.
 - VSS connects to VBB, mapDVC2, and mapAVC2.
 - VBB connects to mapDVC2 and mapAVC2.
 - mapDVC2 connects to mapAVC2.

Legend:

- 3um M2
- 8.5um M2
- 2@11um M2
- 2@3um M2
- 4um M2
- 2@3um M1
- 2@2um M1
- 4um M2
- 80um M2
- 6um M2
- 80um M2
- 12um M2
- 12um M2
- 20um M2
- 12um M2
- 20um M2
- 50um M2
- 50um M2
- 20um M2
- 12um M2
- 20um M2
- 20um M2
- 20um M2
- 12um M2

FIG. 33C4

FROM
FIG.
33B8



TO FIG. 33D1

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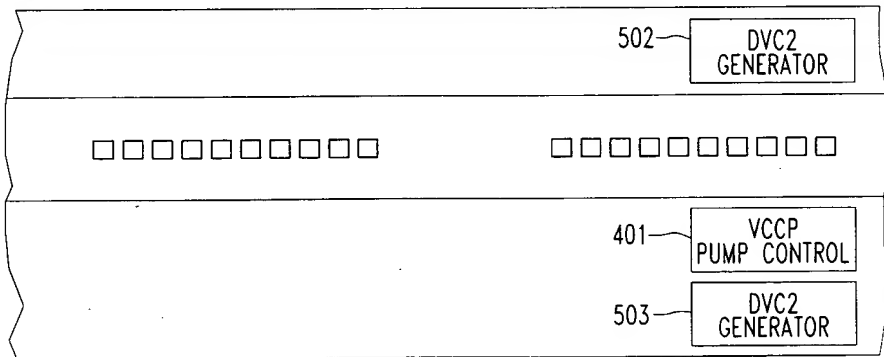
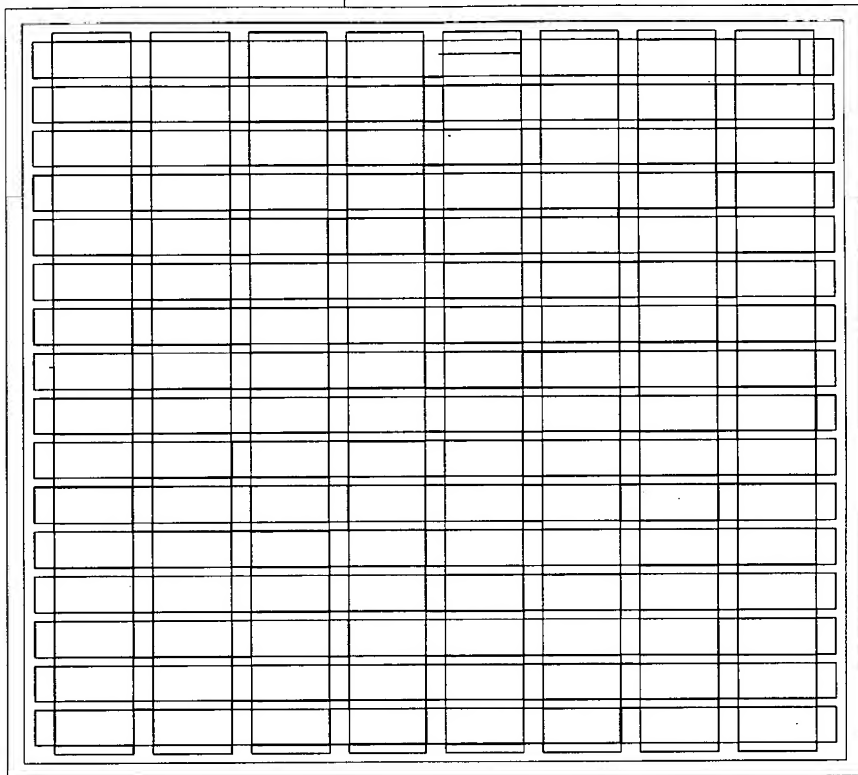
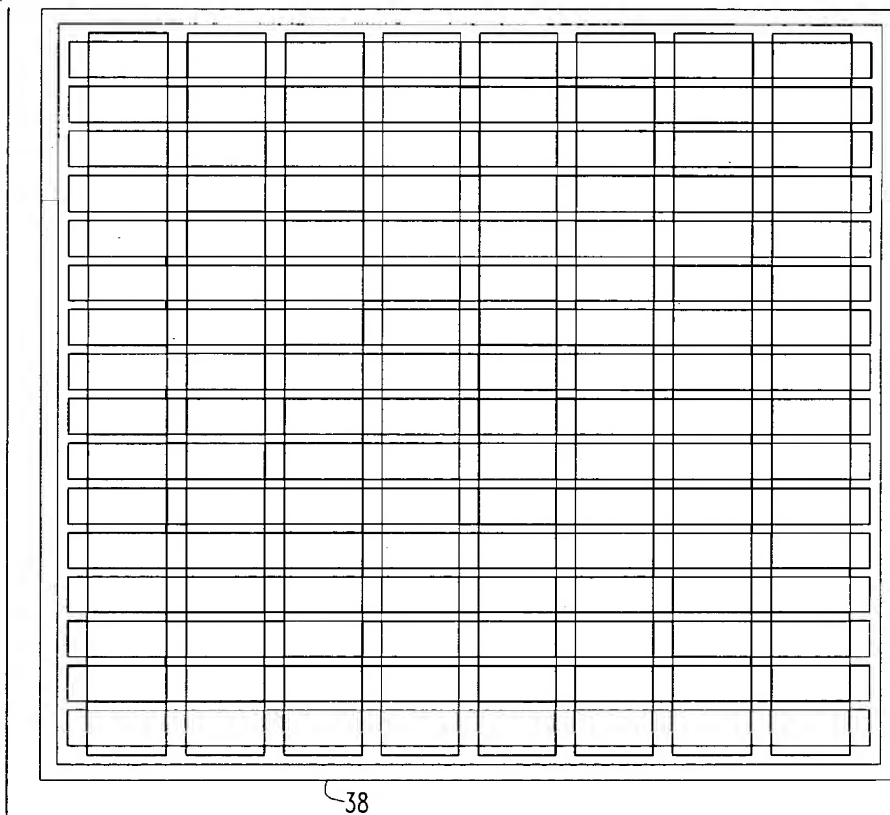


FIG. 33D2

TO
FIG.
33D4

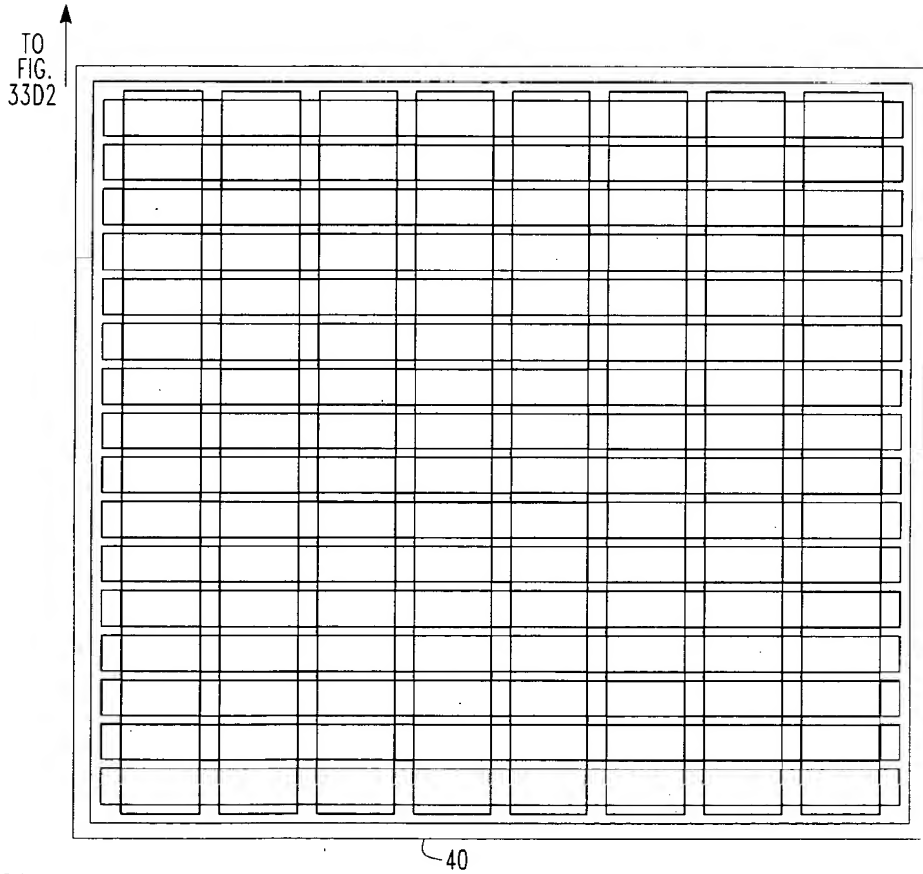
TO
FIG.
33D1

(SEE FIG. 33E1)



TO FIG. 33D4

FIG. 33D3



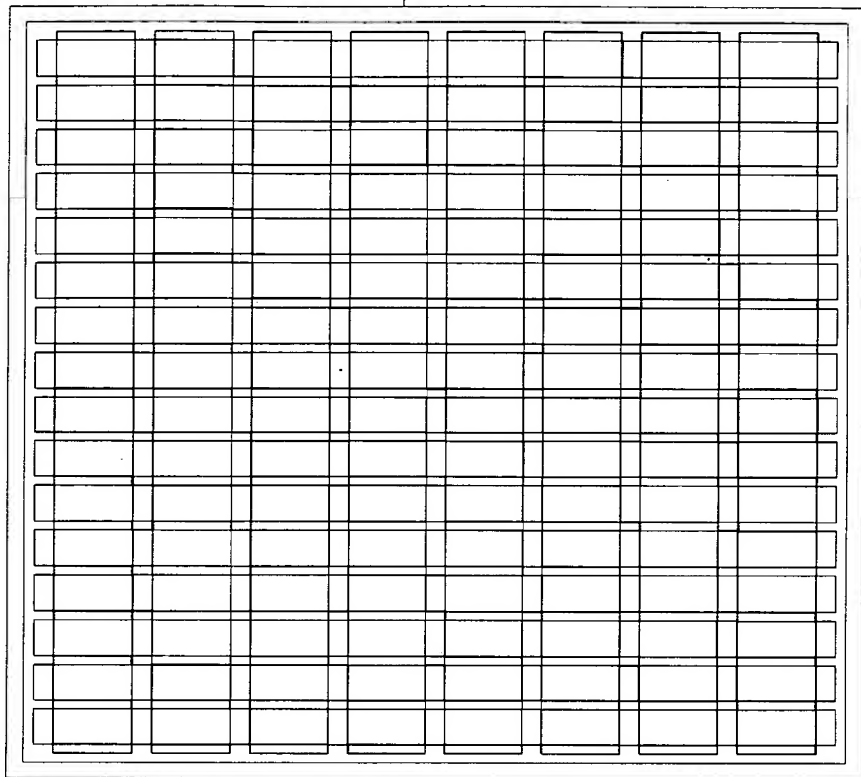
TO FIG. 33D3

FIG. 33D4

(SEE FIG. 33D2)

25

TO FIG. 33E2



DVC2
GENERATOR 504

□ □ □ □ □ □ □ □ □ □

□ □ □ □ □ □ □ □ □ □

VCCP
REGULATOR 220

DVC2
GENERATOR 505

TO
FIG.
33E3

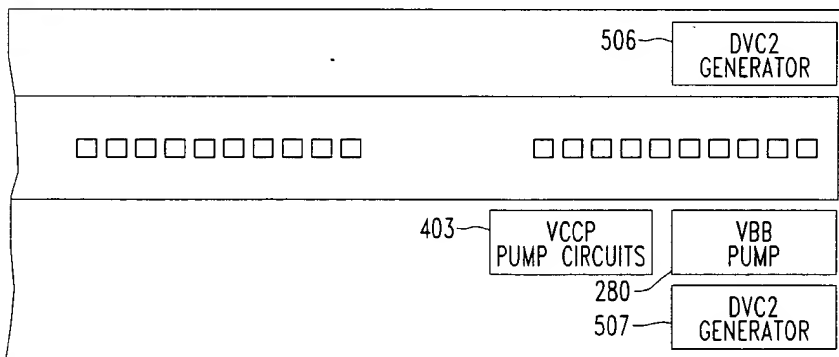
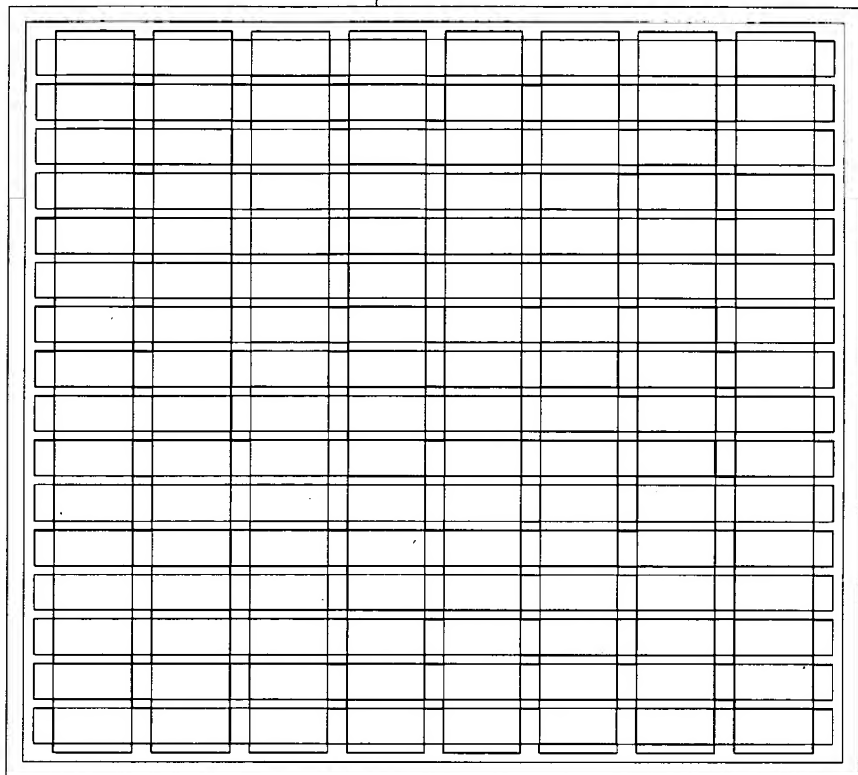
FIG. 33E1

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TO FIG. 33E1

27

10



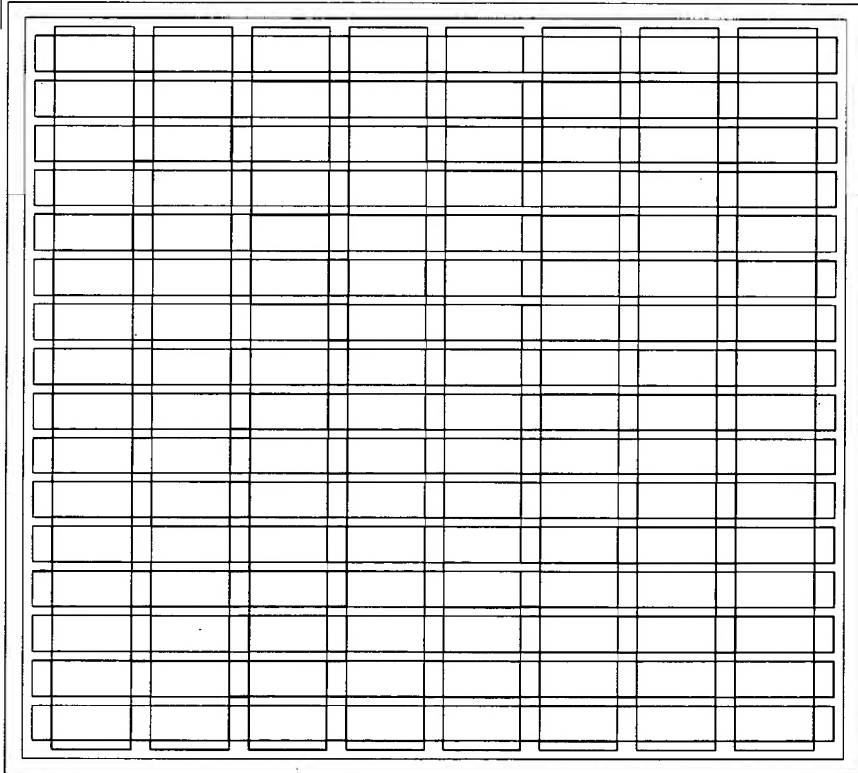
200

FIG. 33E2

TO FIG. 33E4

TO
FIG.
33E1

TO FIG. 33E2



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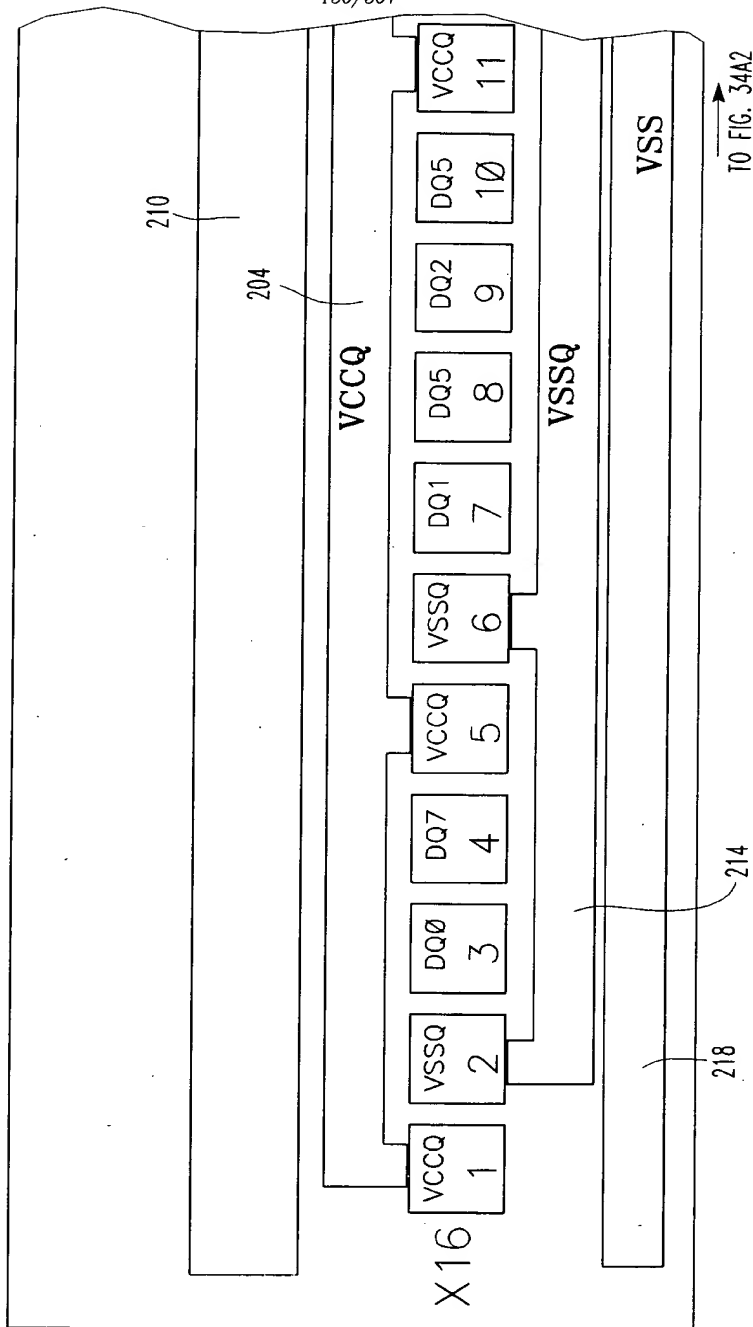
TO FIG. 33E4

FIG. 33E3



FIG. 33E4

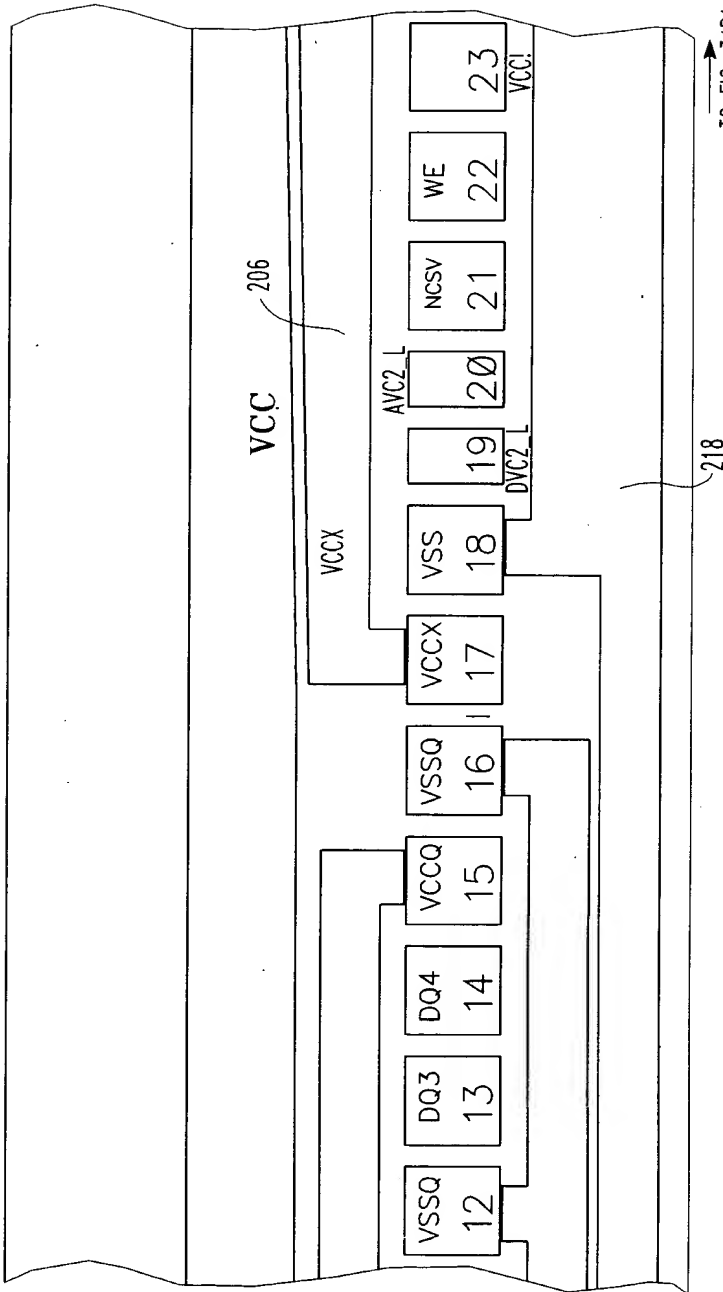
↑ TO
FIG.
33E2



TO FIG. 34A2

FIG. 34A1

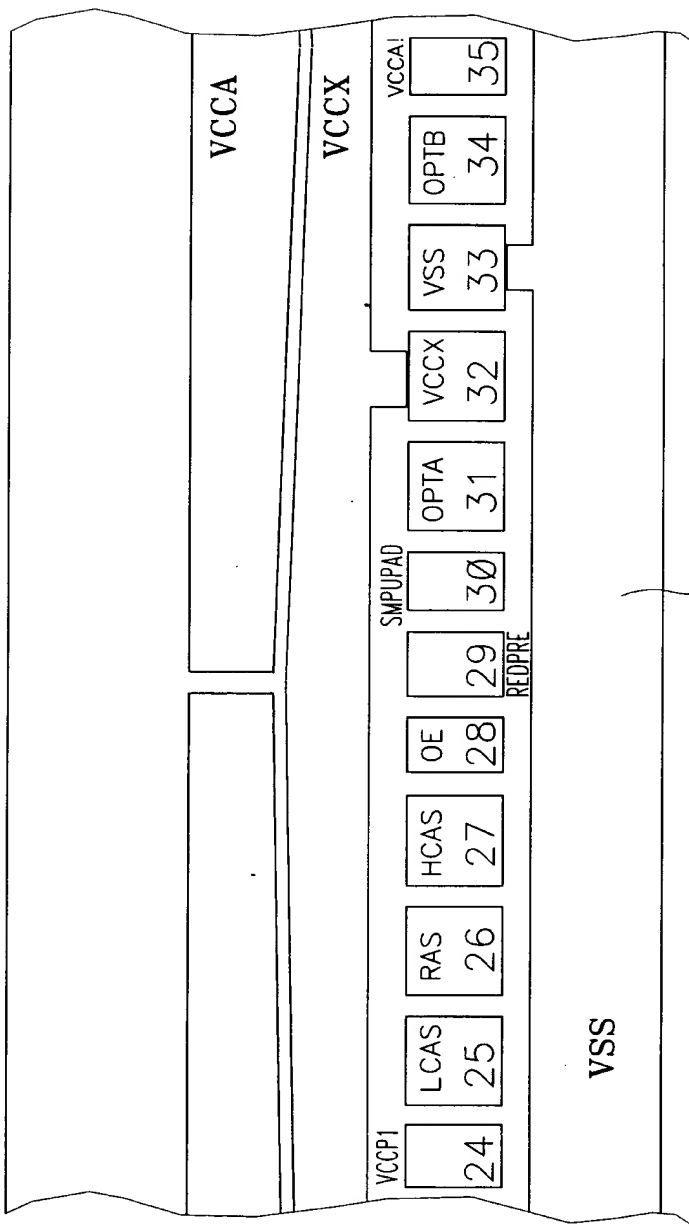
TO FIG. 34A1
←



TO FIG. 34B1
→

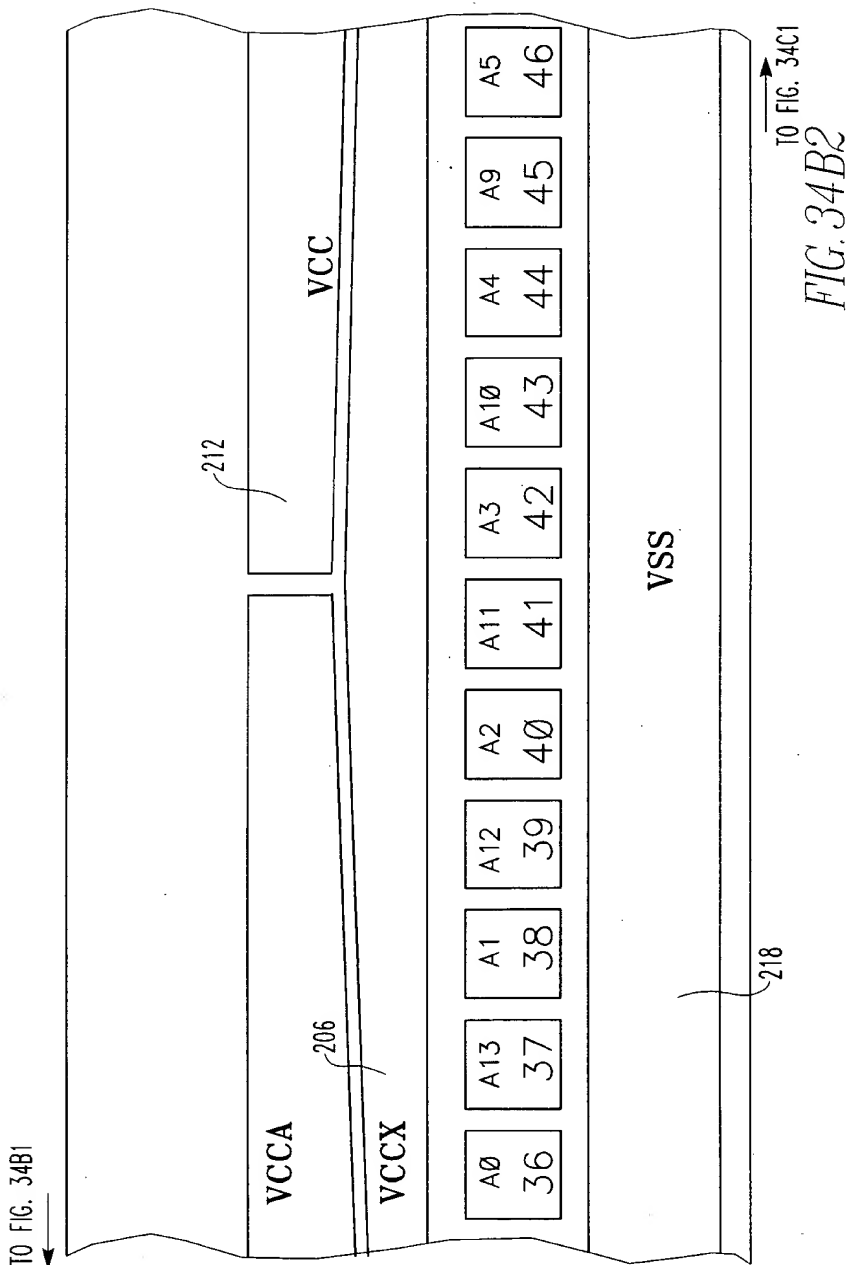
FIG. 34A2

TO FIG. 34A2

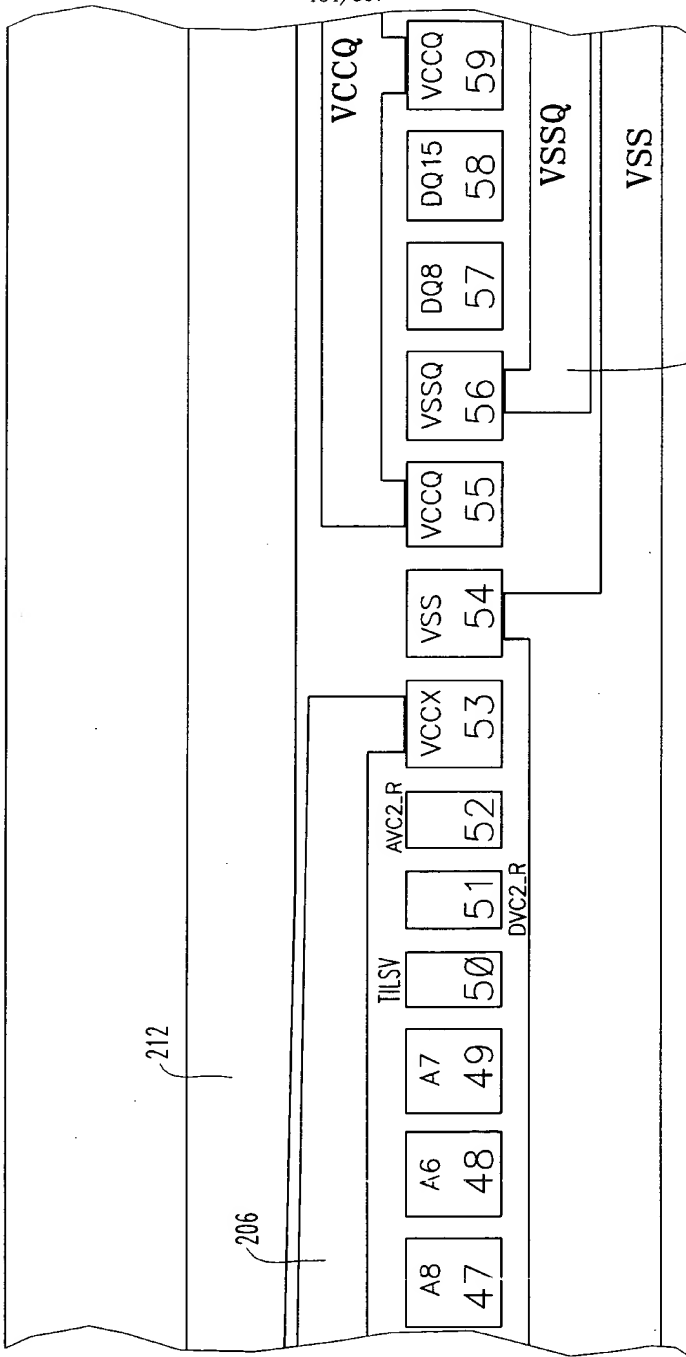


TO FIG. 34B2

FIG. 34B1



TO FIG. 34B2



TO FIG. 34C1

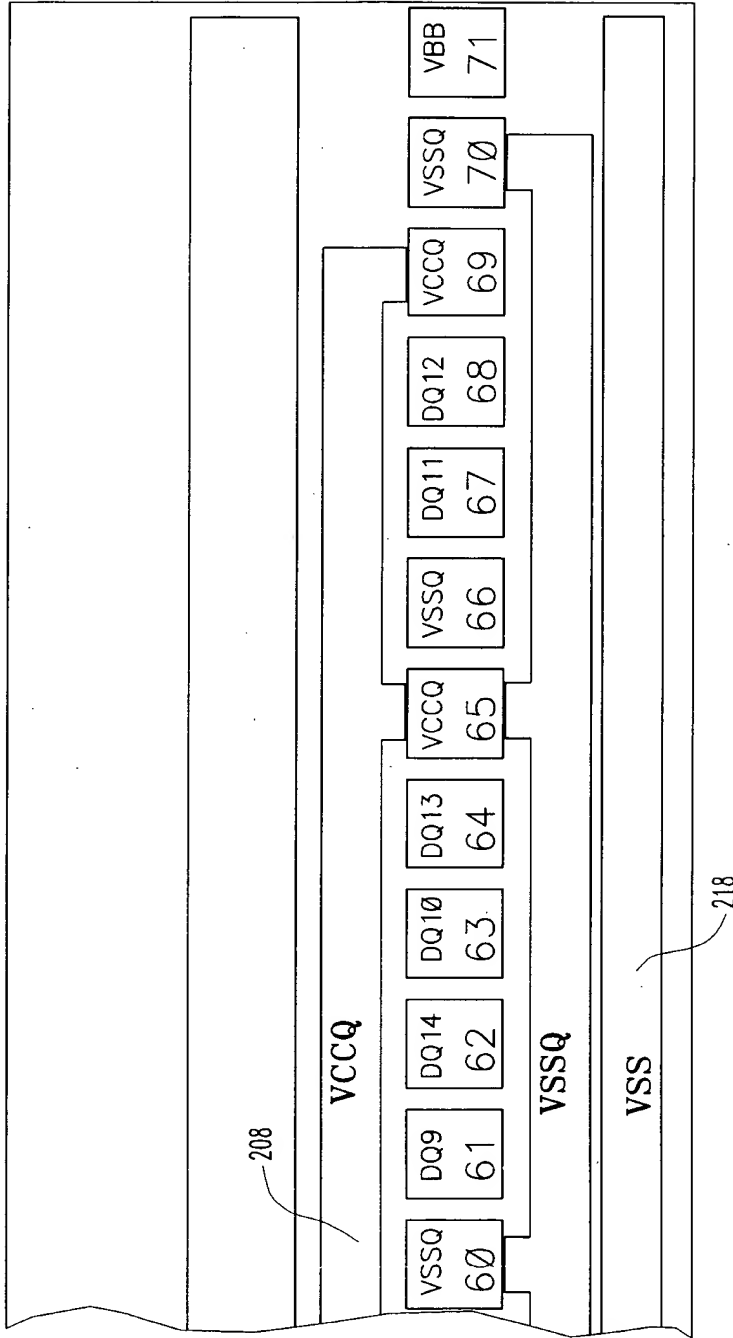


FIG. 34C2

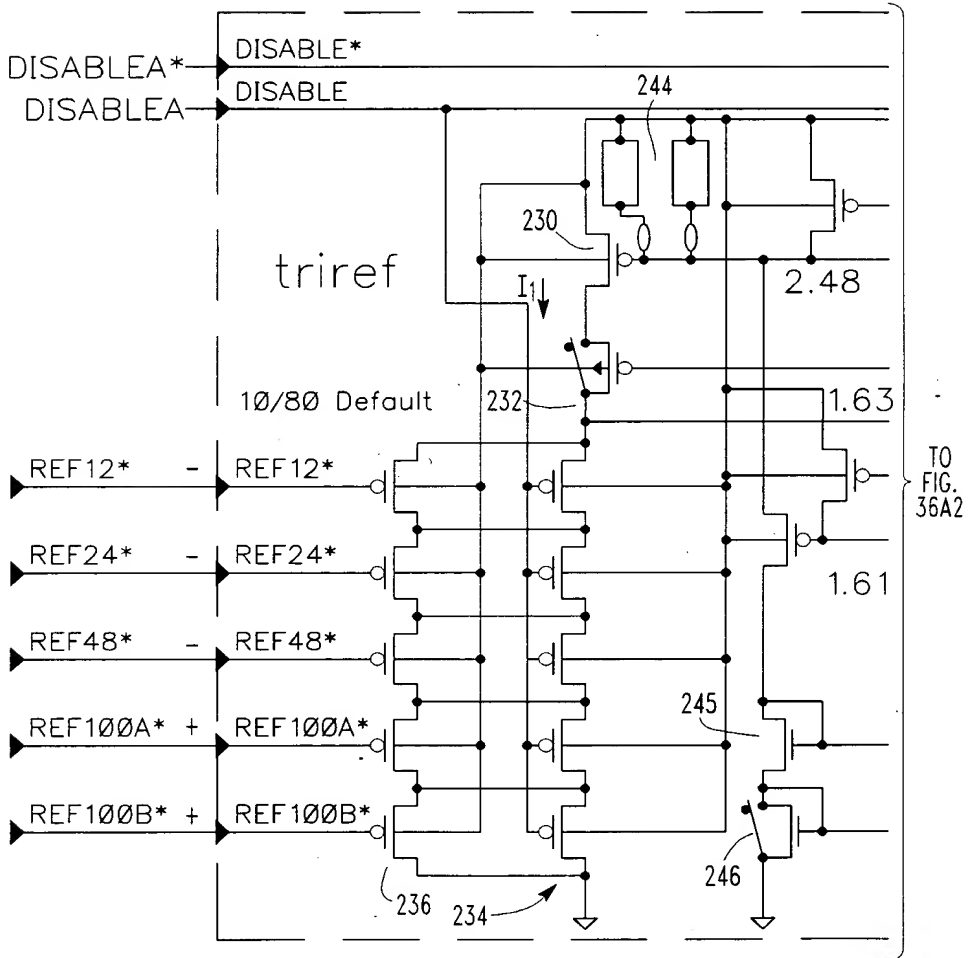
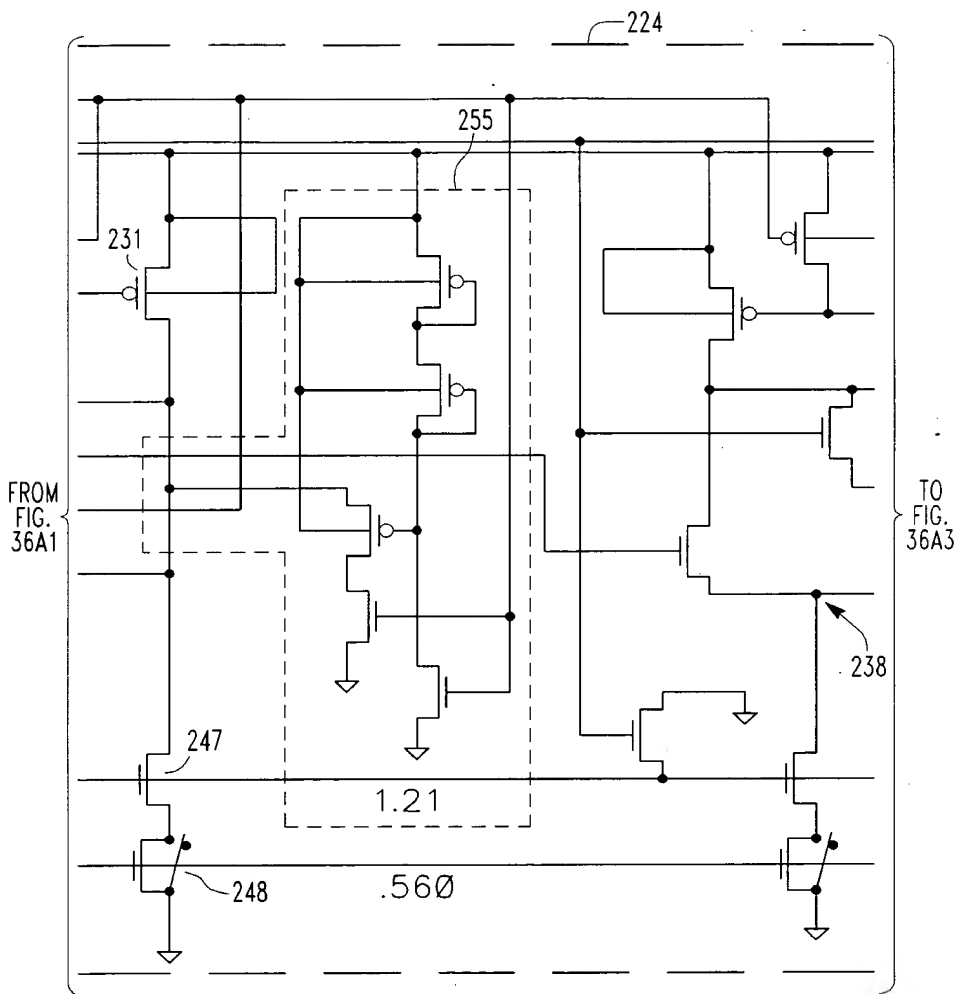


FIG. 36A1



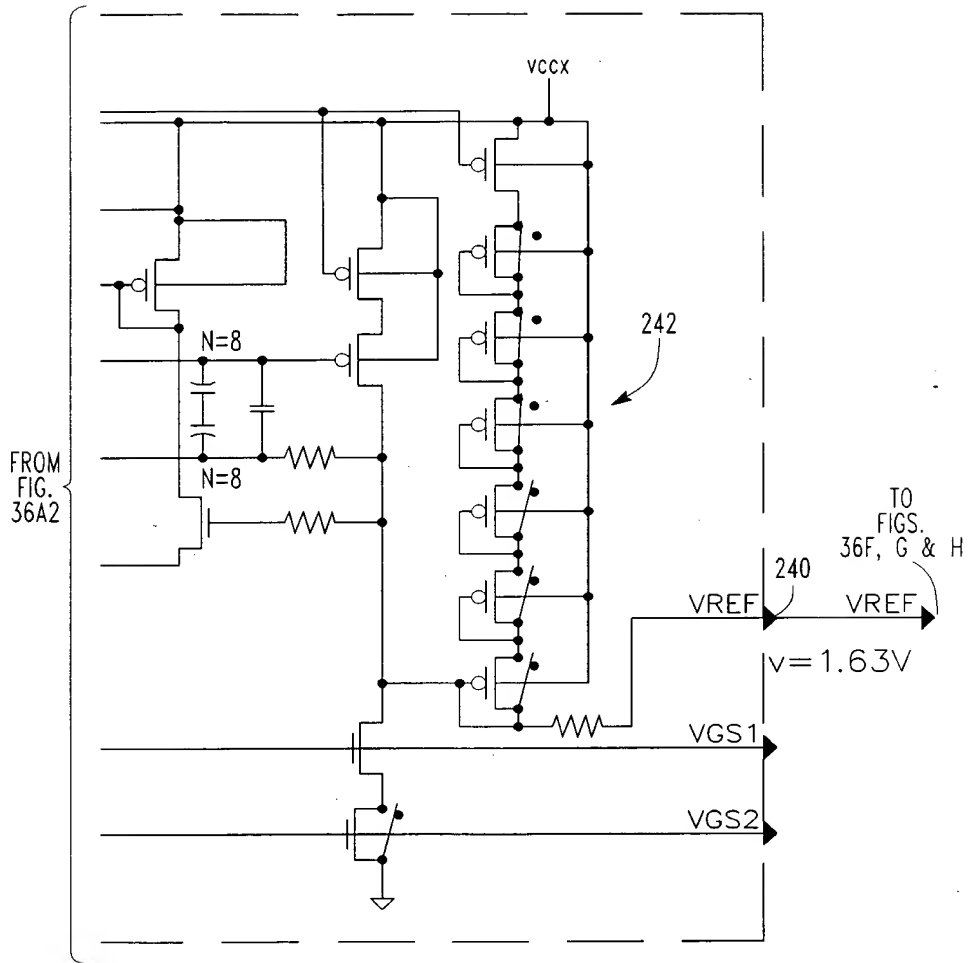


FIG. 36A3

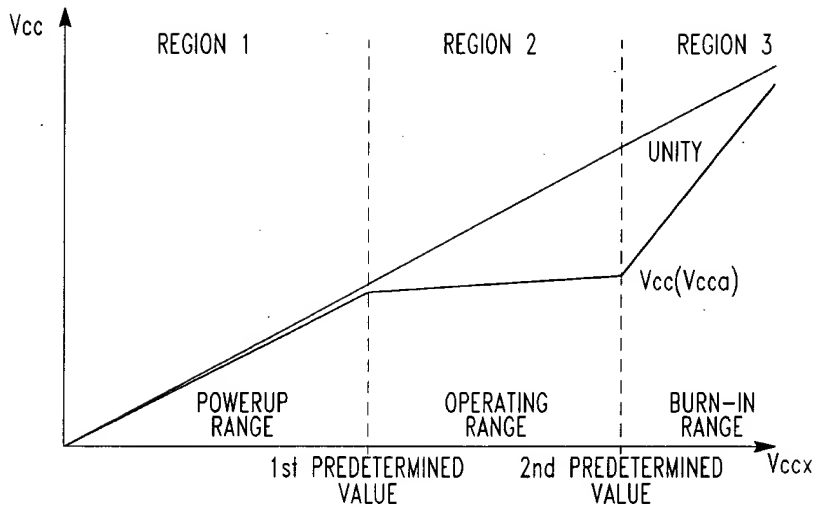


FIG. 36B

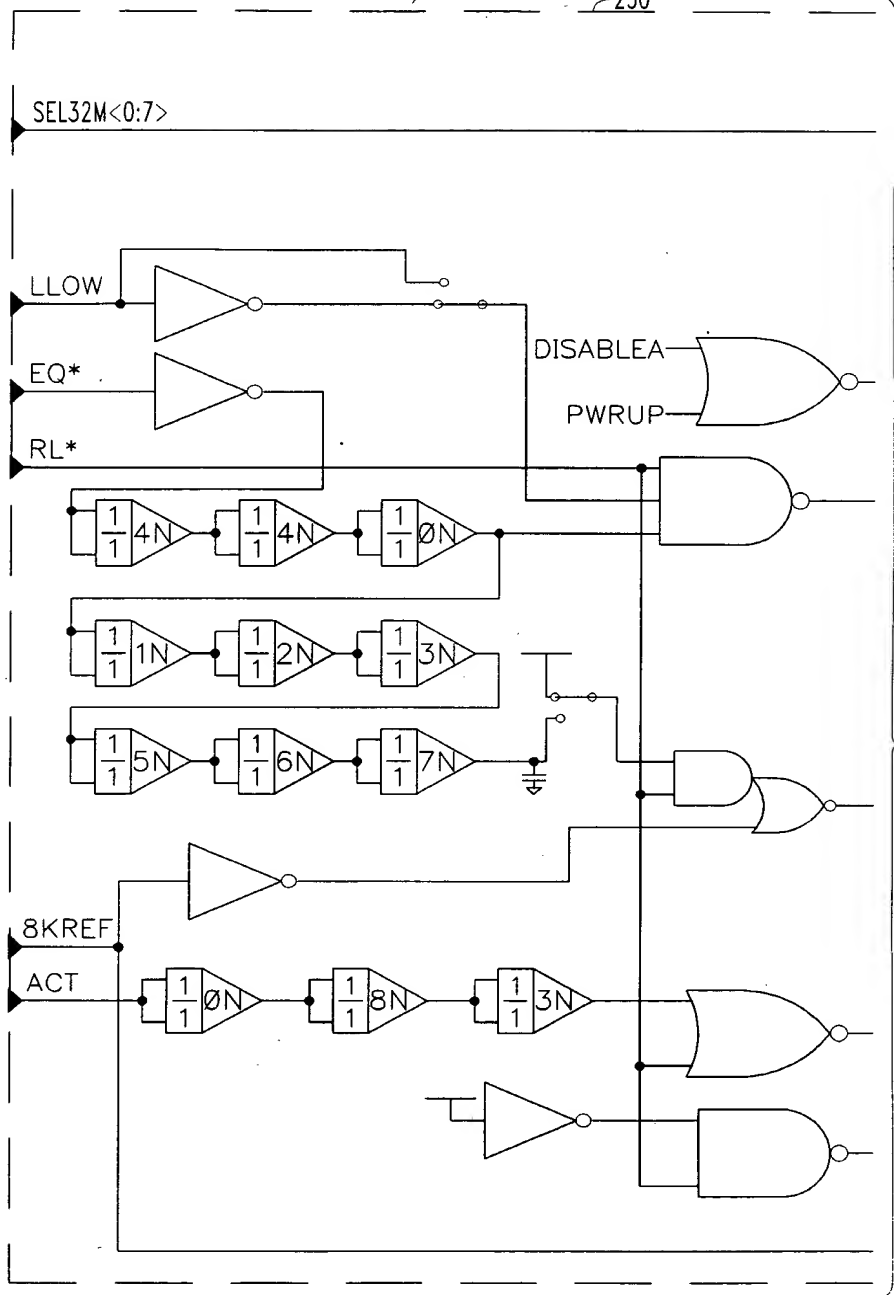


FIG. 36C1

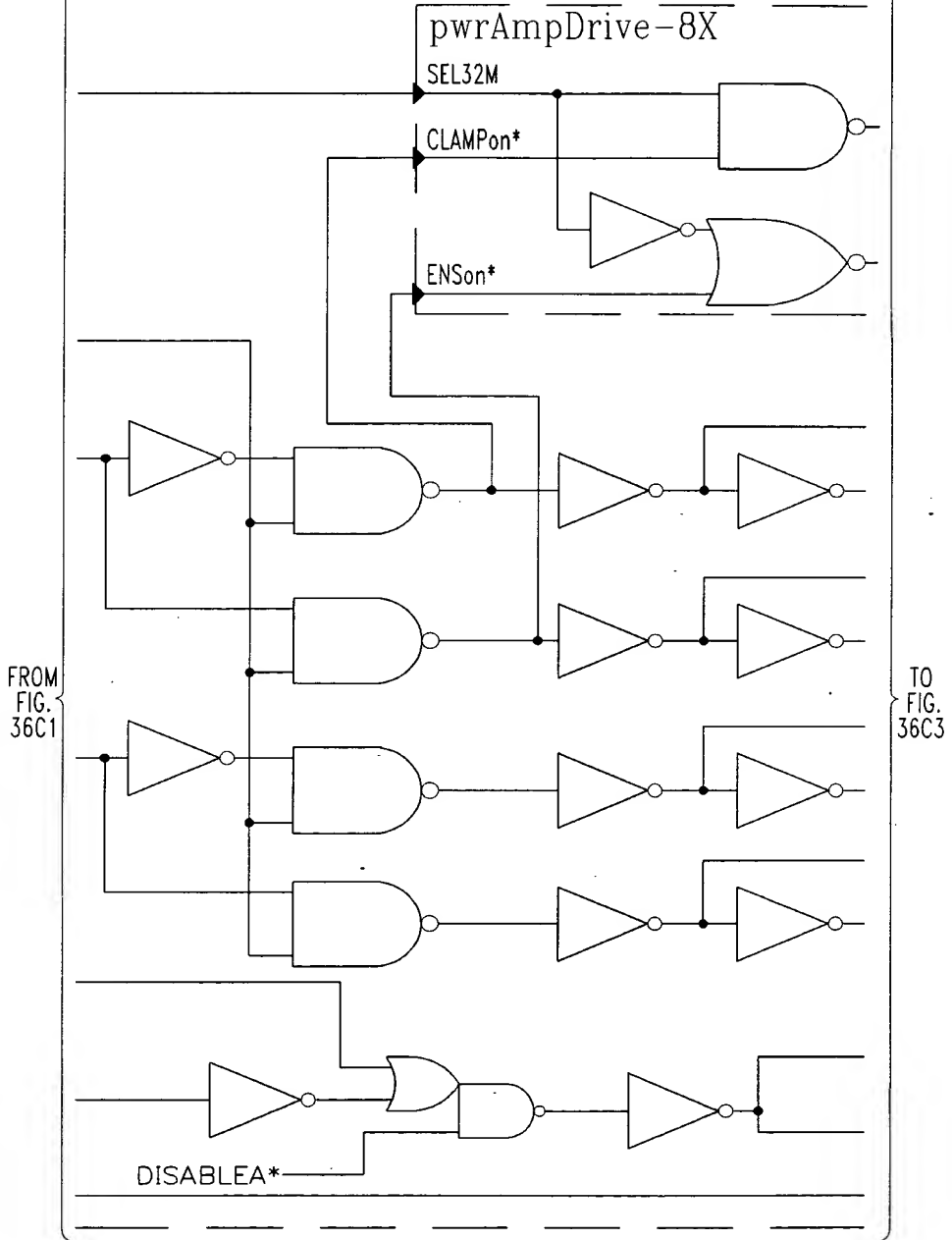
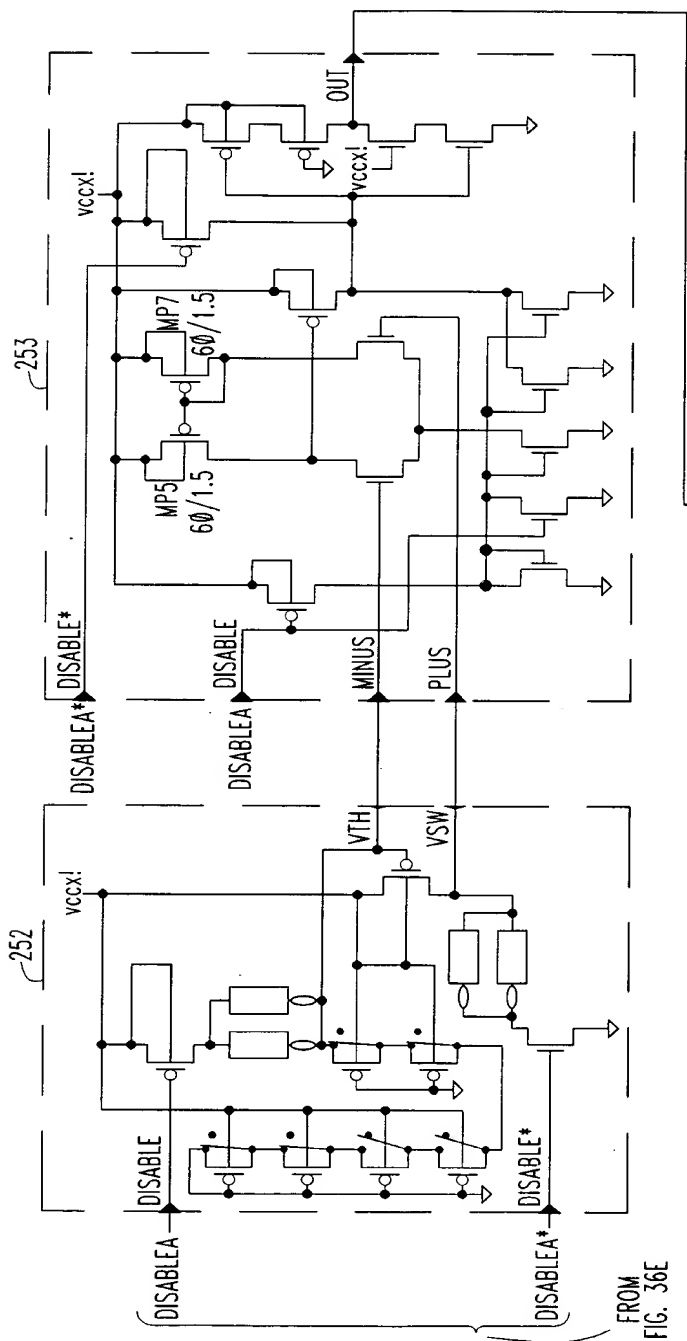


FIG. 36C2



FIG. 36C3



FROM
FIG. 36E

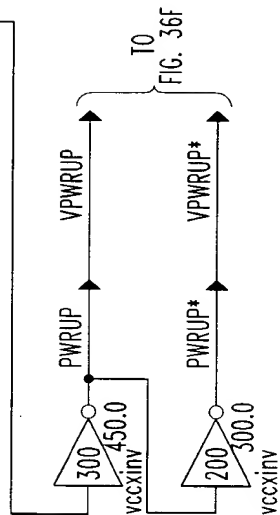


FIG. 36D

FIG. 36F

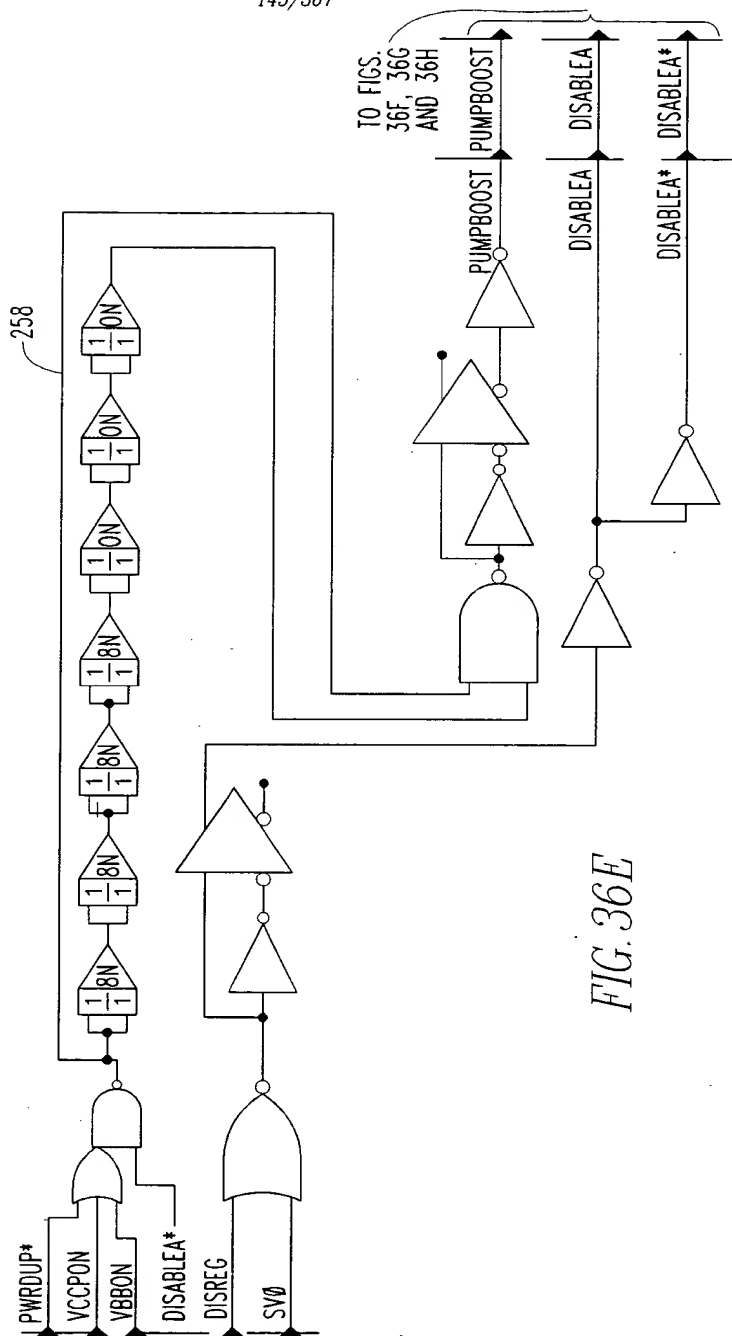


FIG. 36E

FIG. 36E

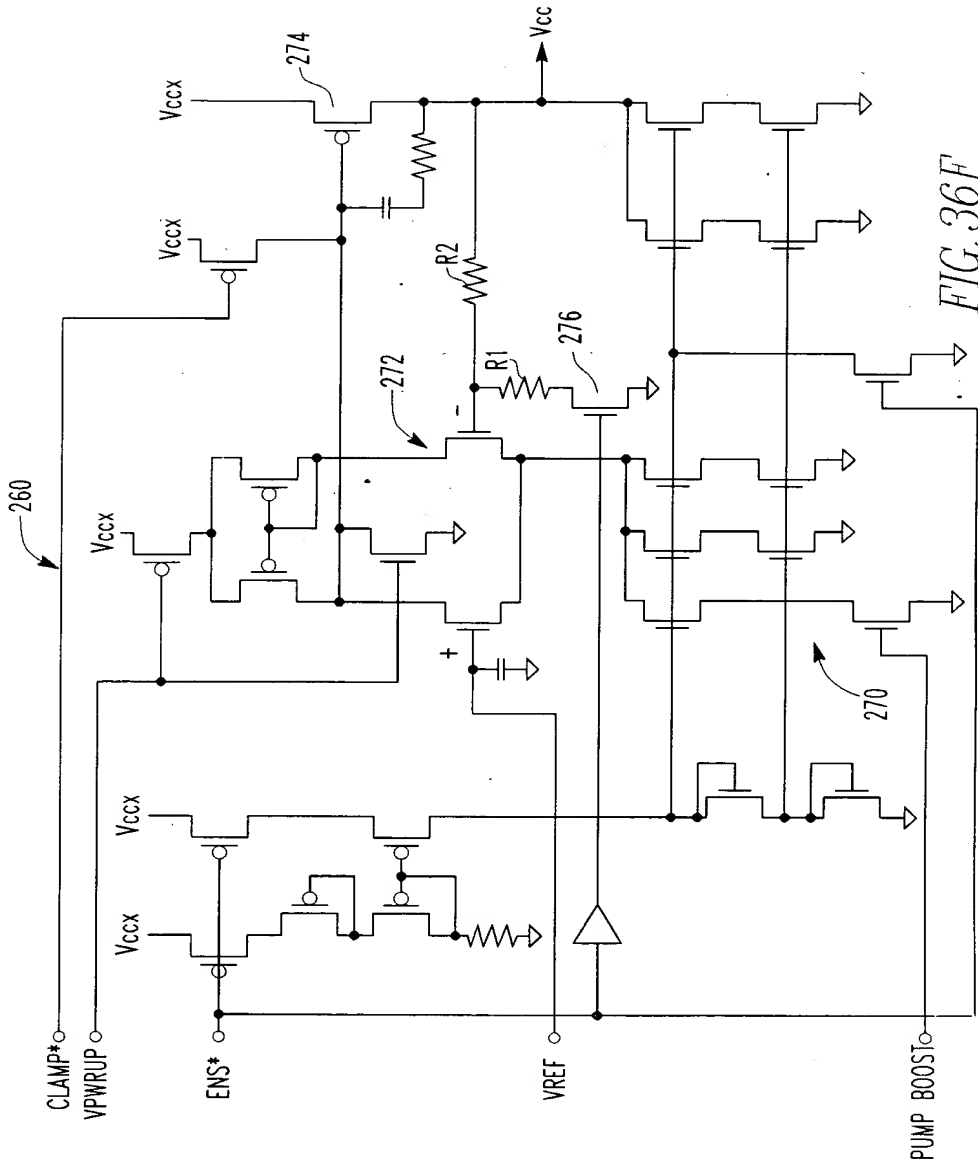


FIG. 36F

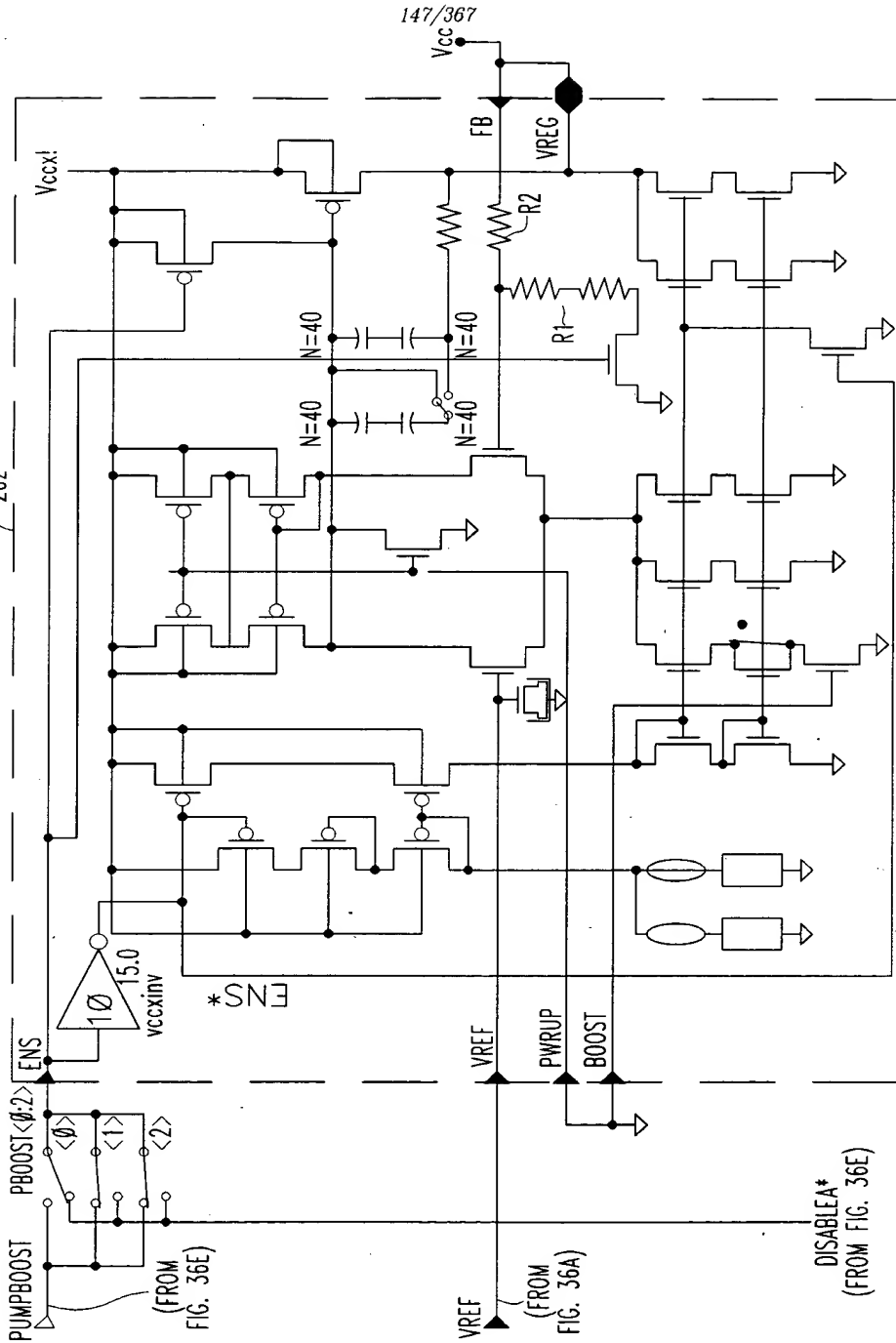


FIG. 36G

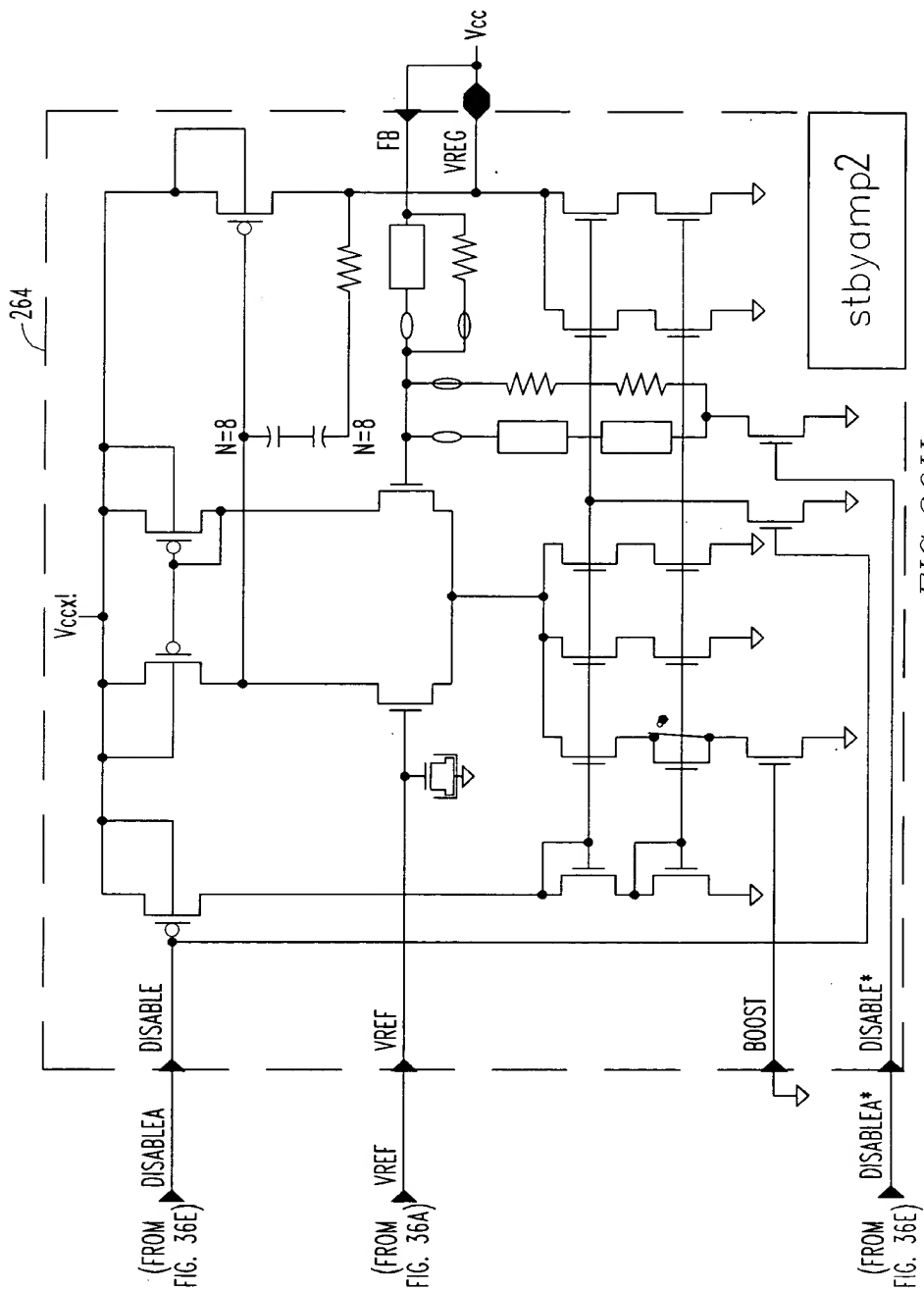


FIG. 36H

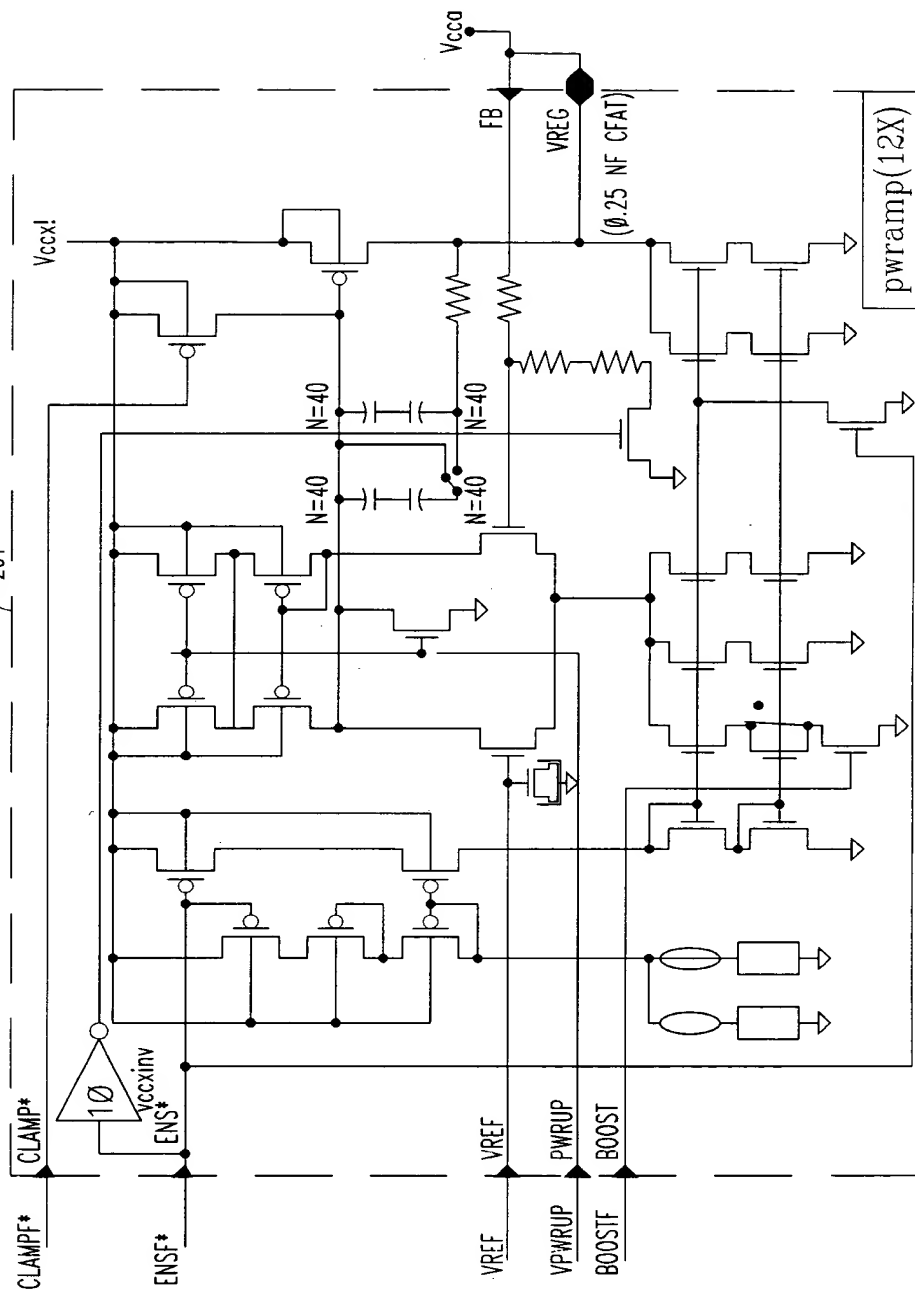


FIG. 361

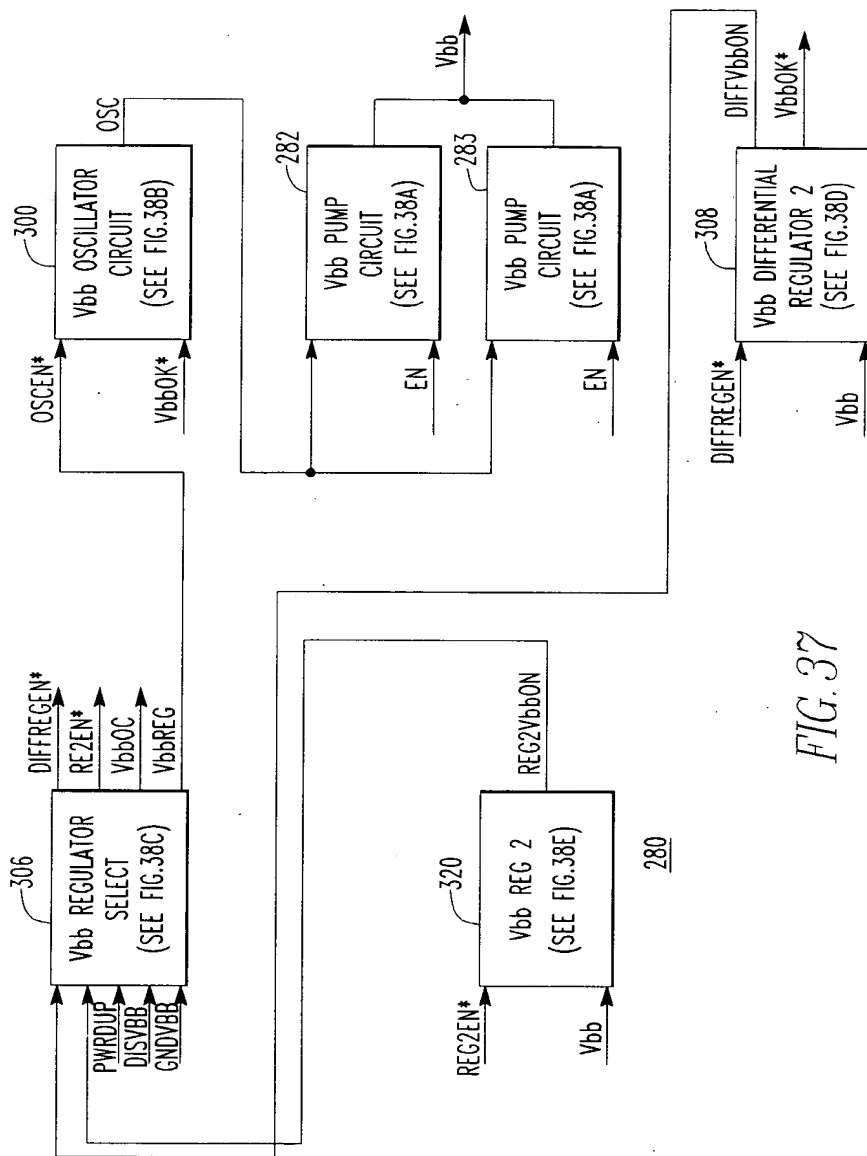


FIG. 37

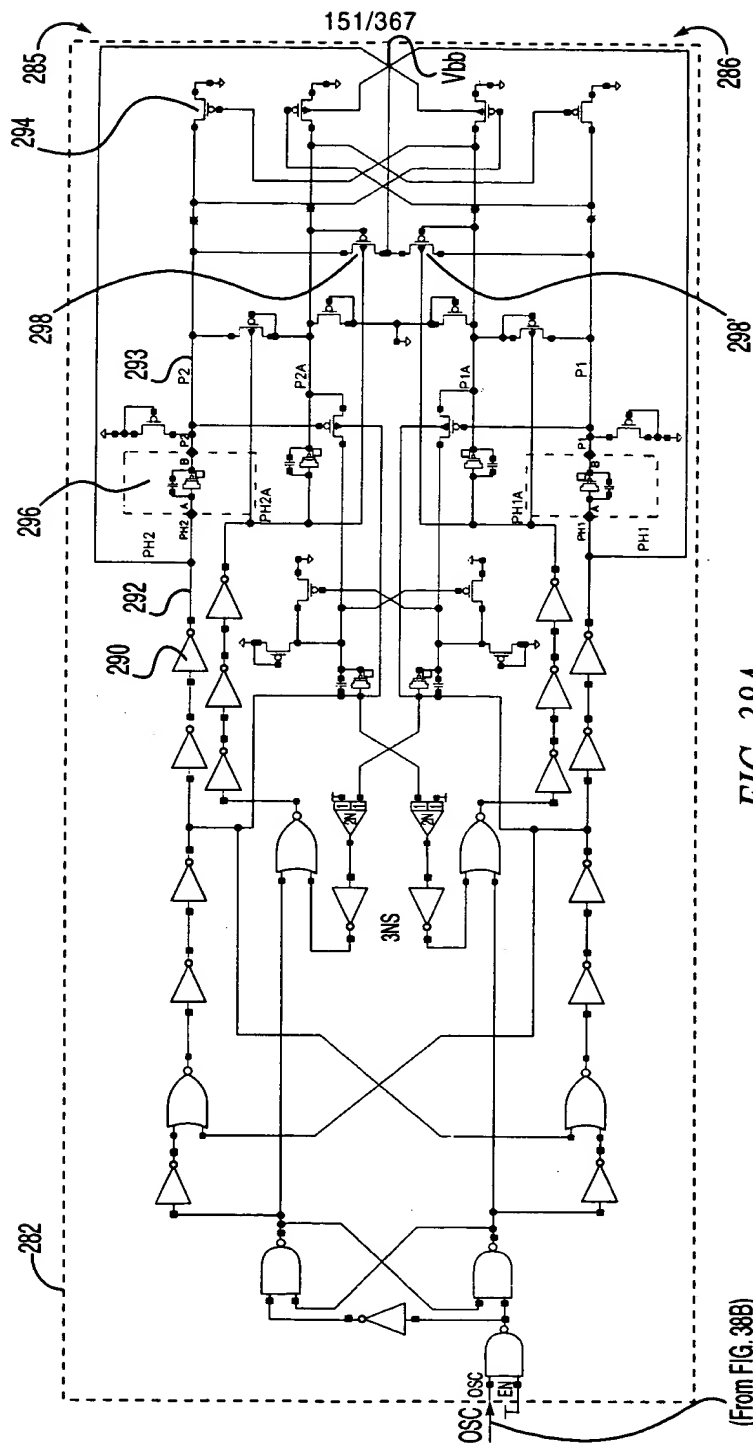
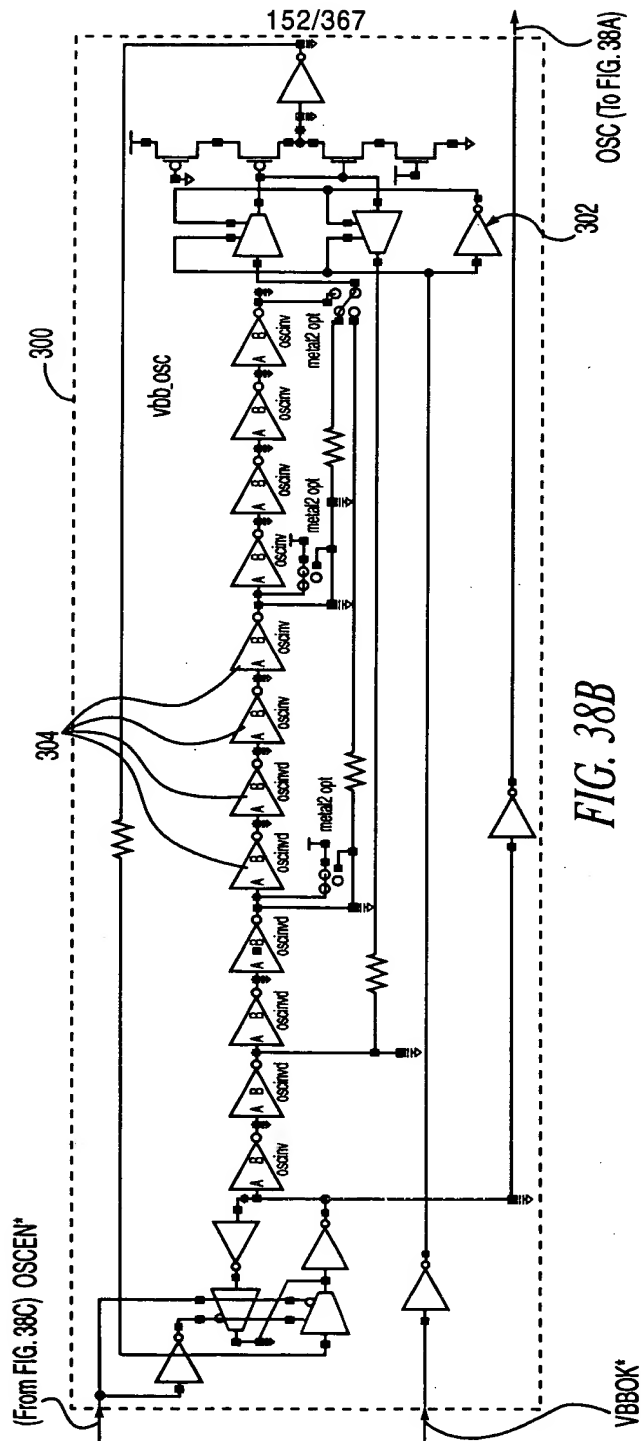


FIG. 38A

(From FIG. 38B)



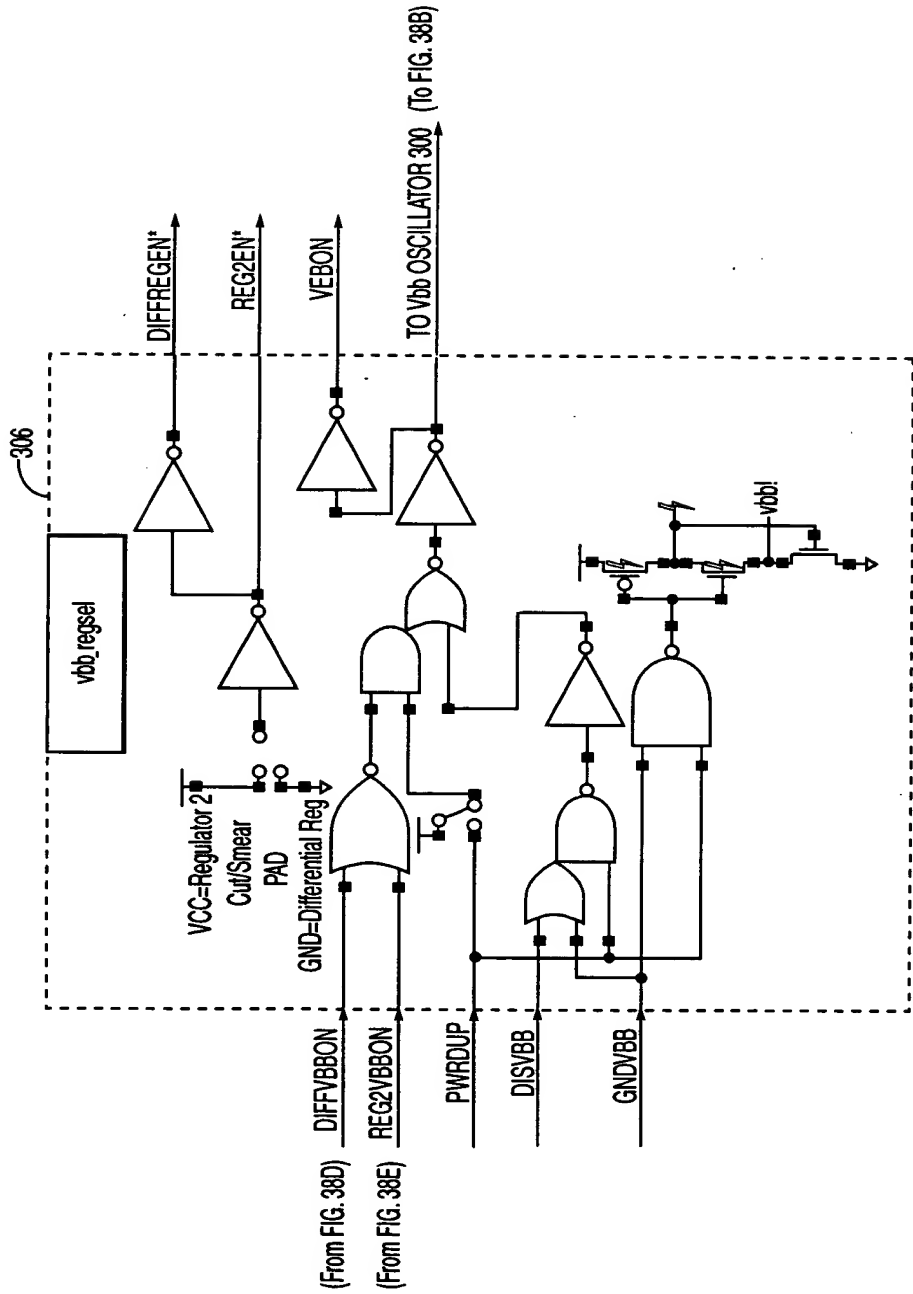


FIG. 38C

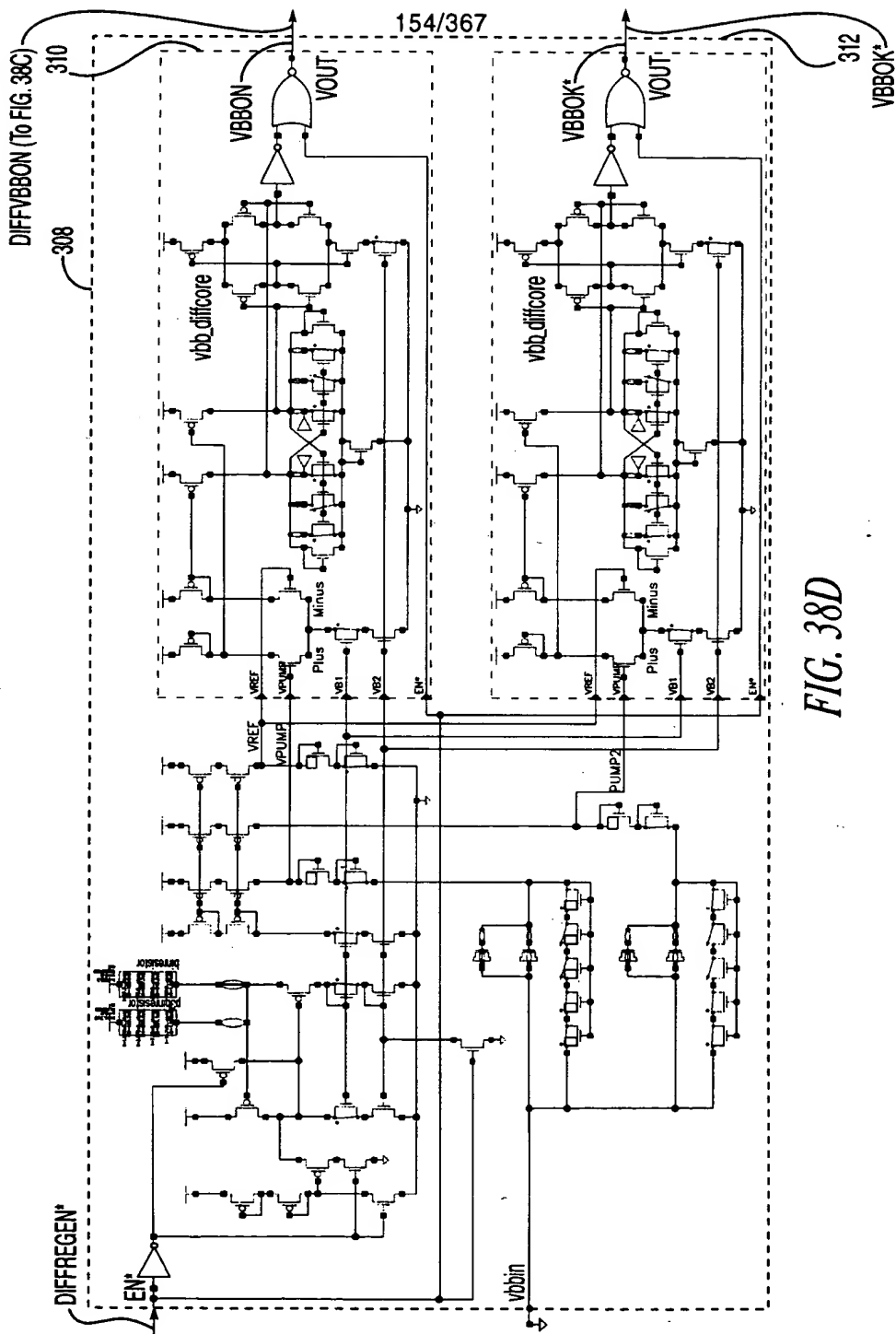


FIG. 38D

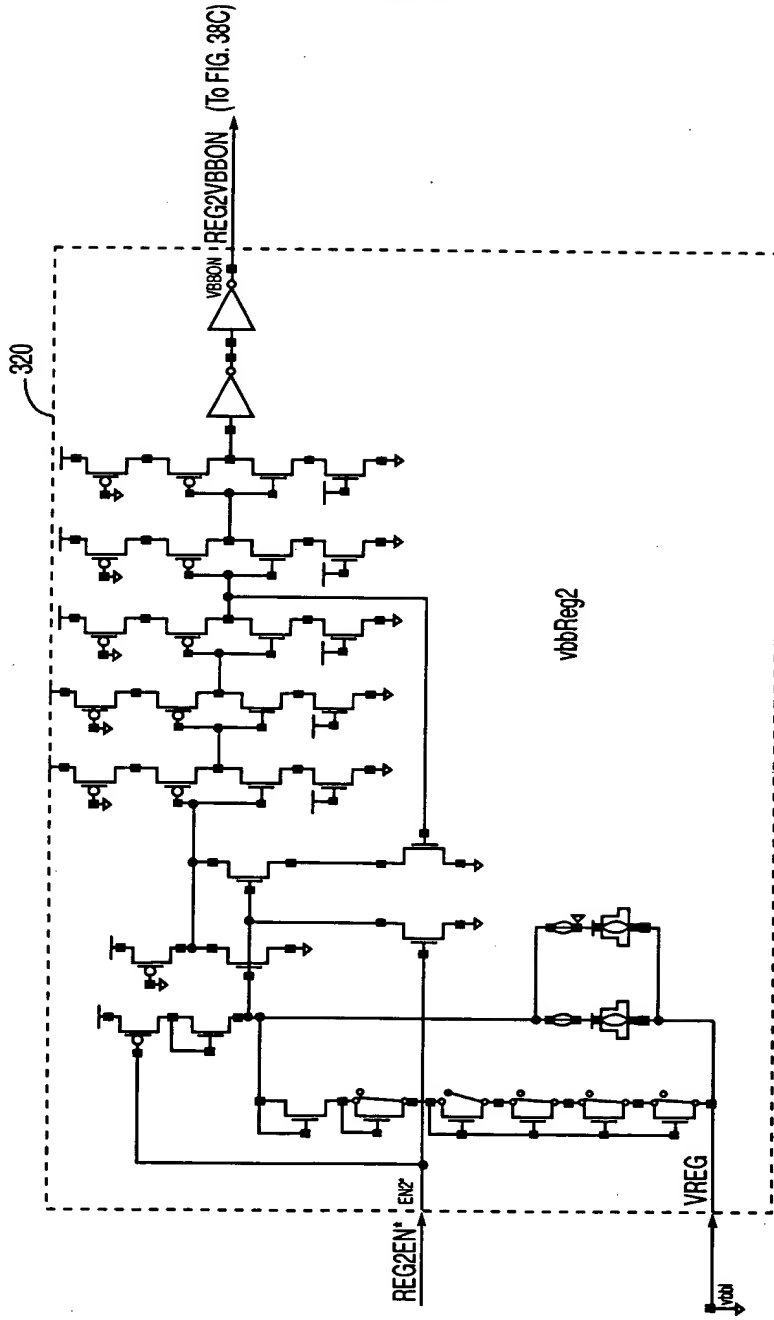


FIG. 38E

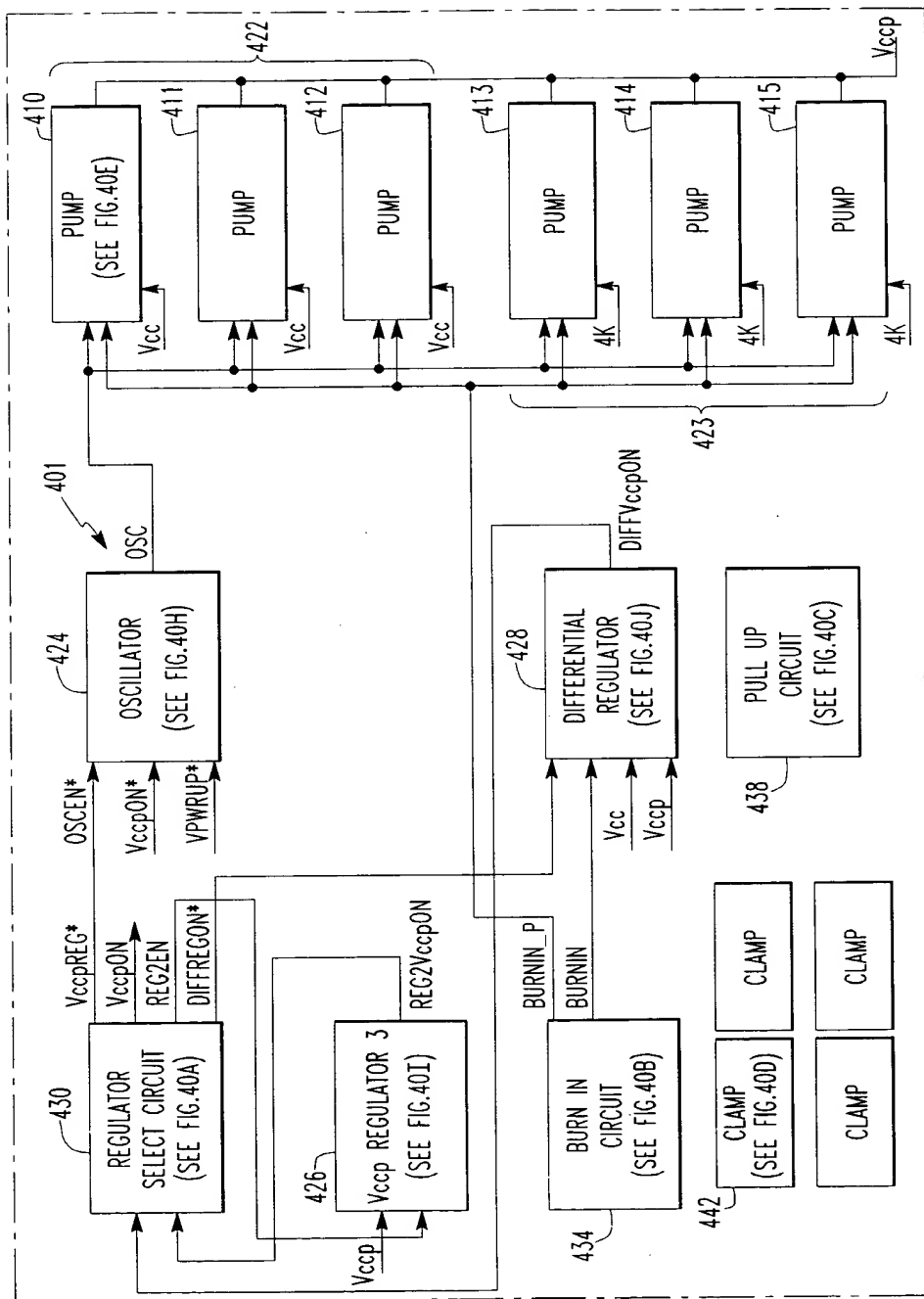


FIG. 39

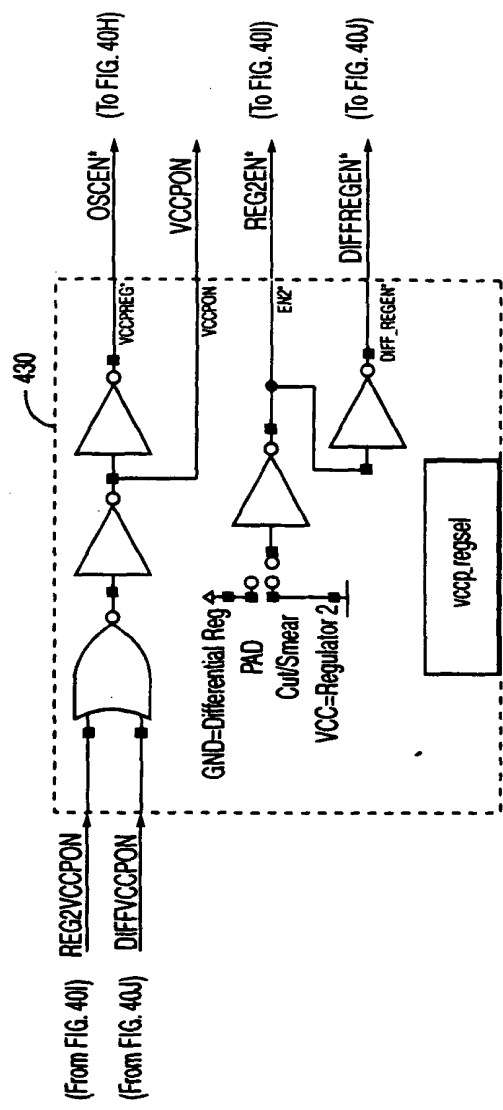


FIG. 40A

FIG. 40B

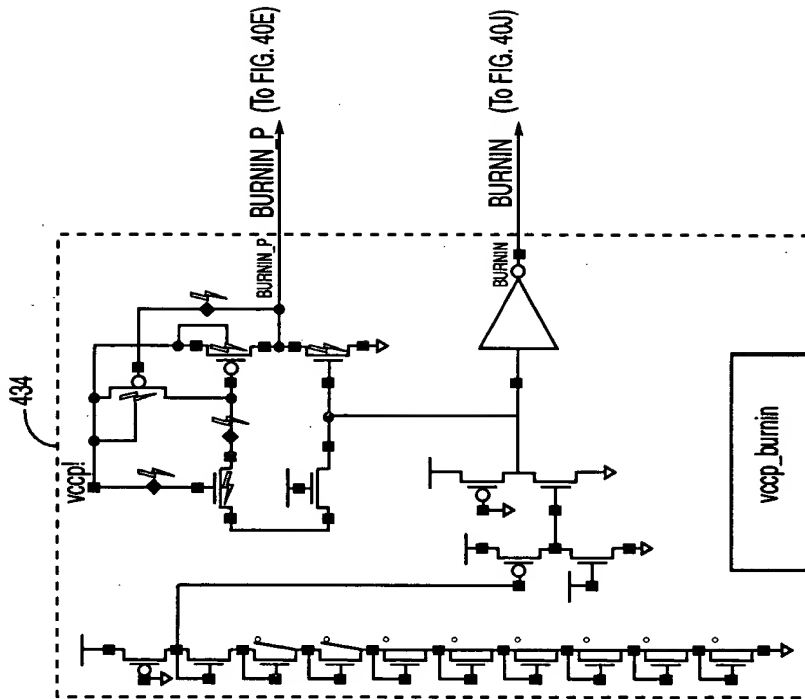


FIG. 40B

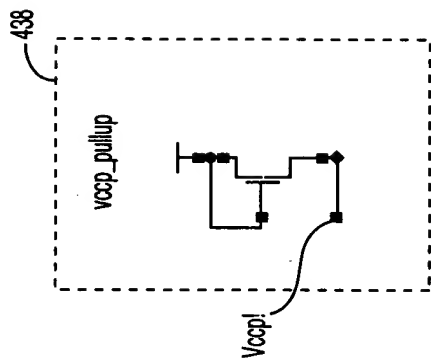


FIG. 40C

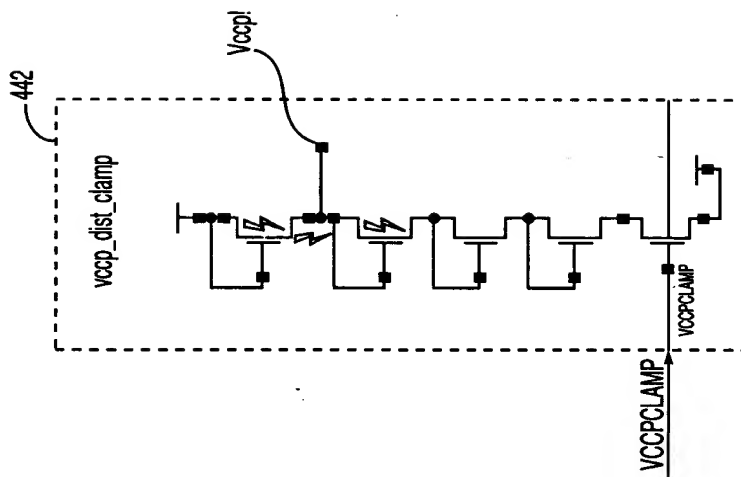


FIG. 40D

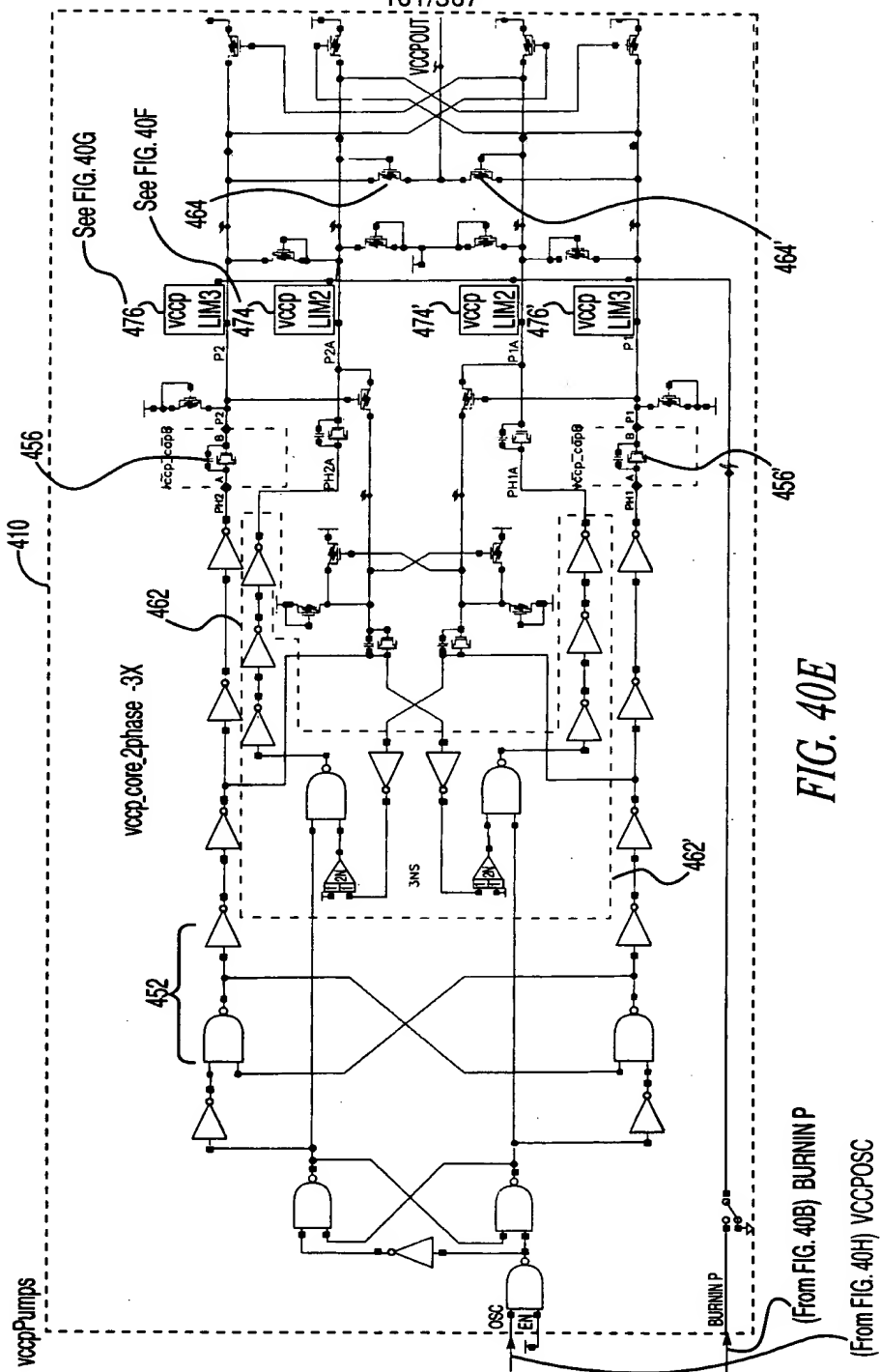


FIG. 40E

(From FIG. 40B) BURNNIN P

(From FIG. 40H) VCCPOSC

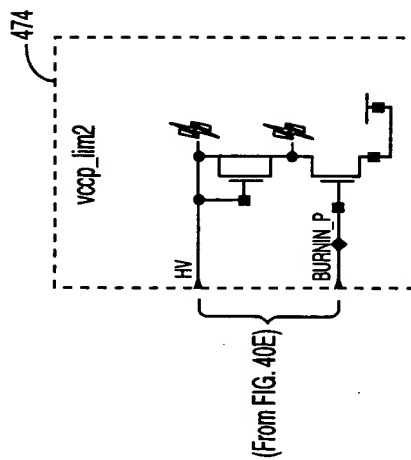


FIG. 40F

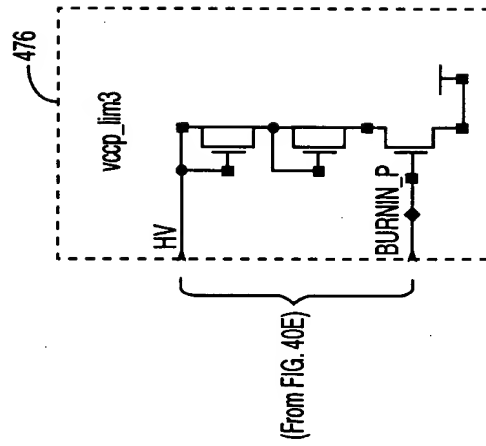
[illegible]

FIG. 40G

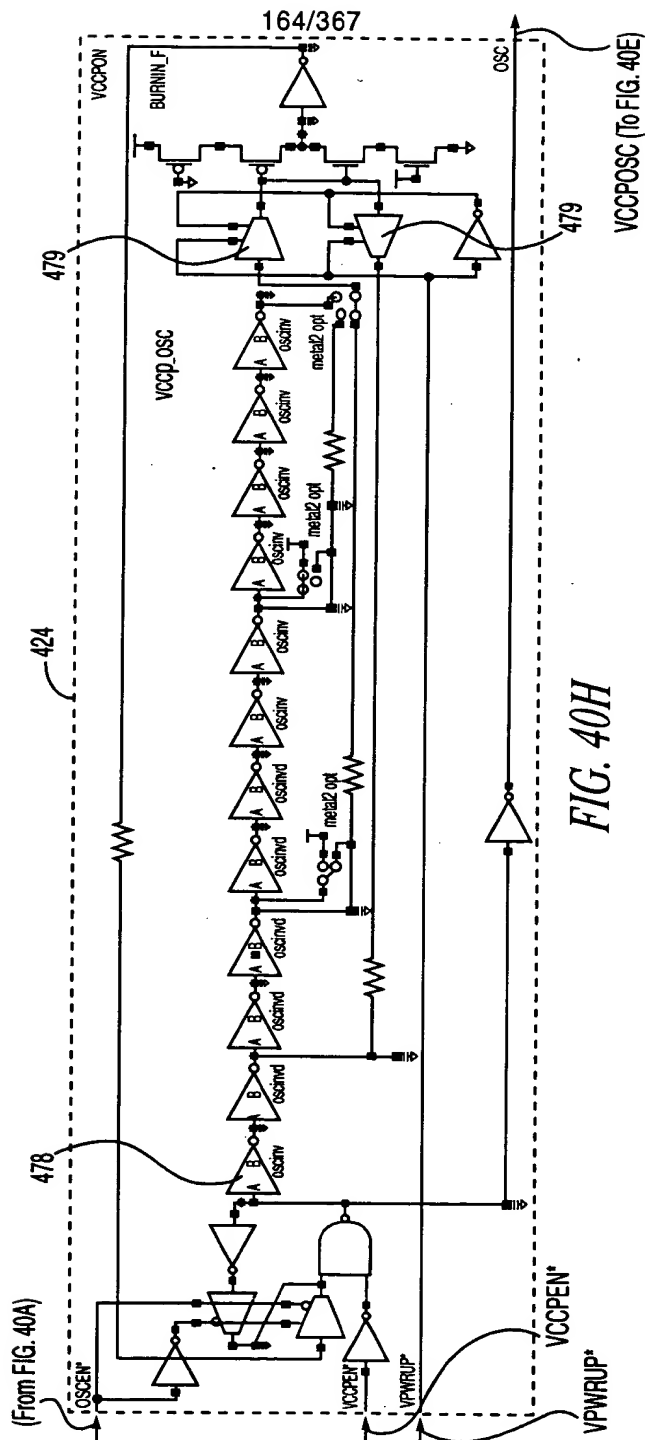


FIG. 40H

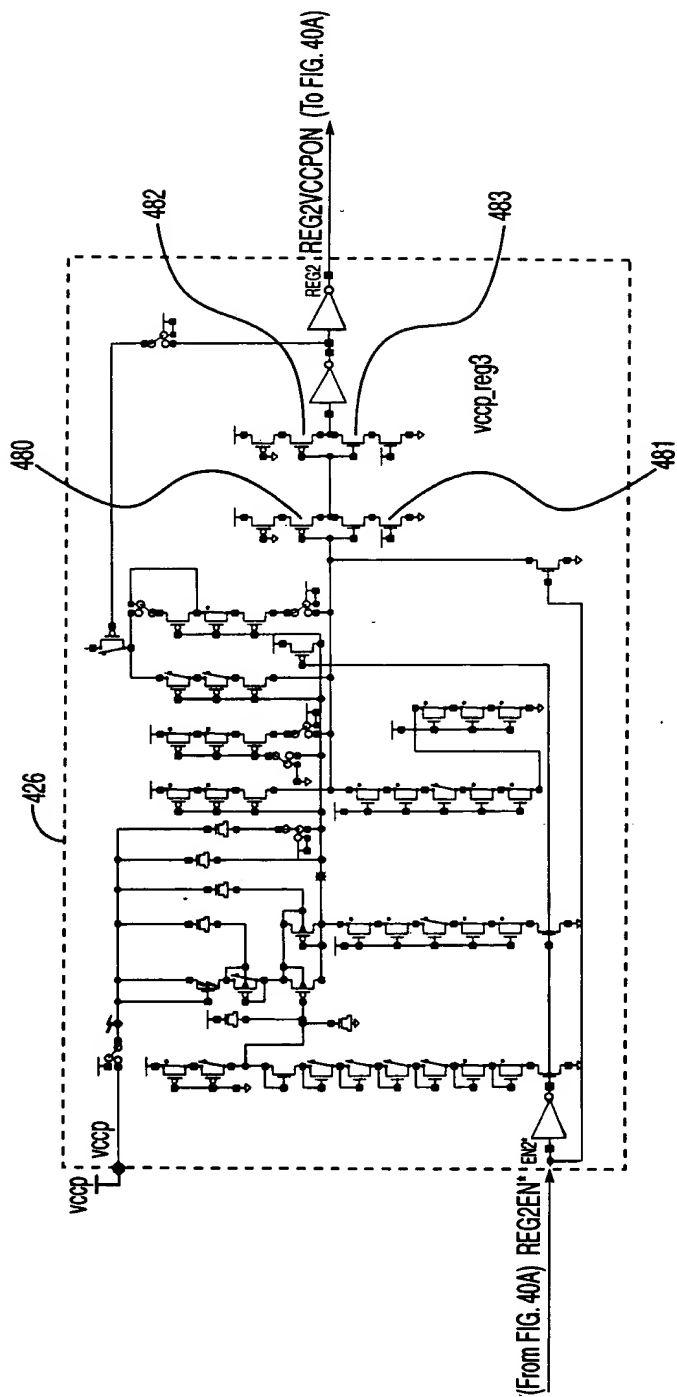


FIG. 40I

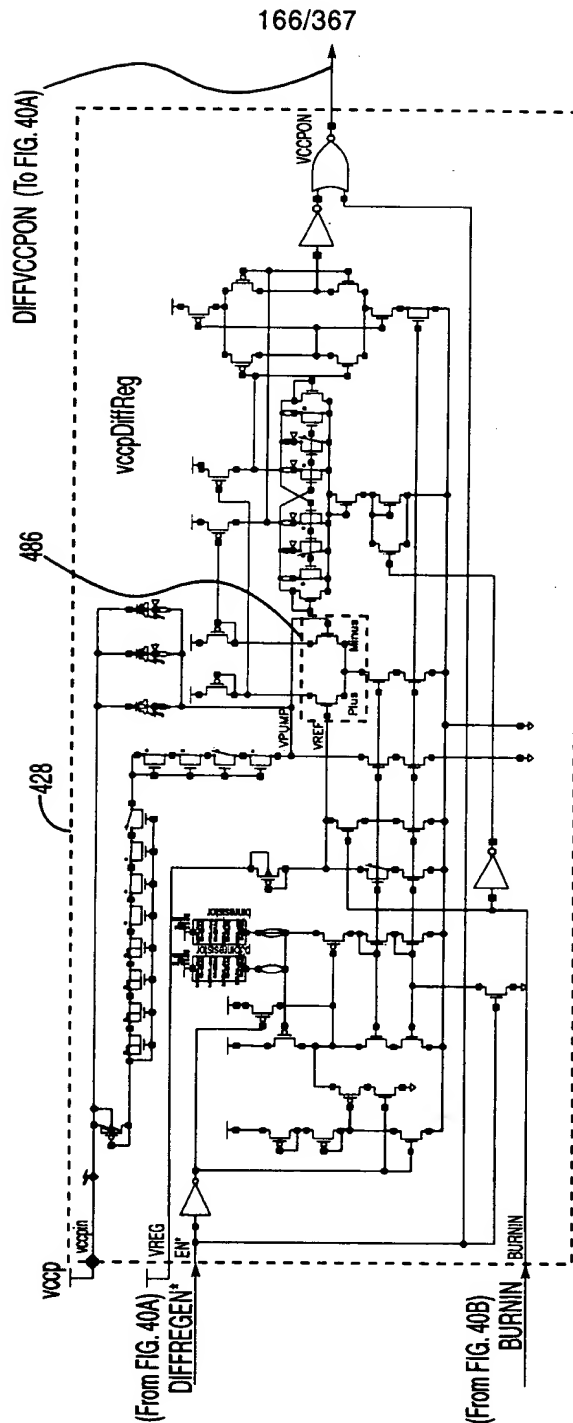


FIG. 40J

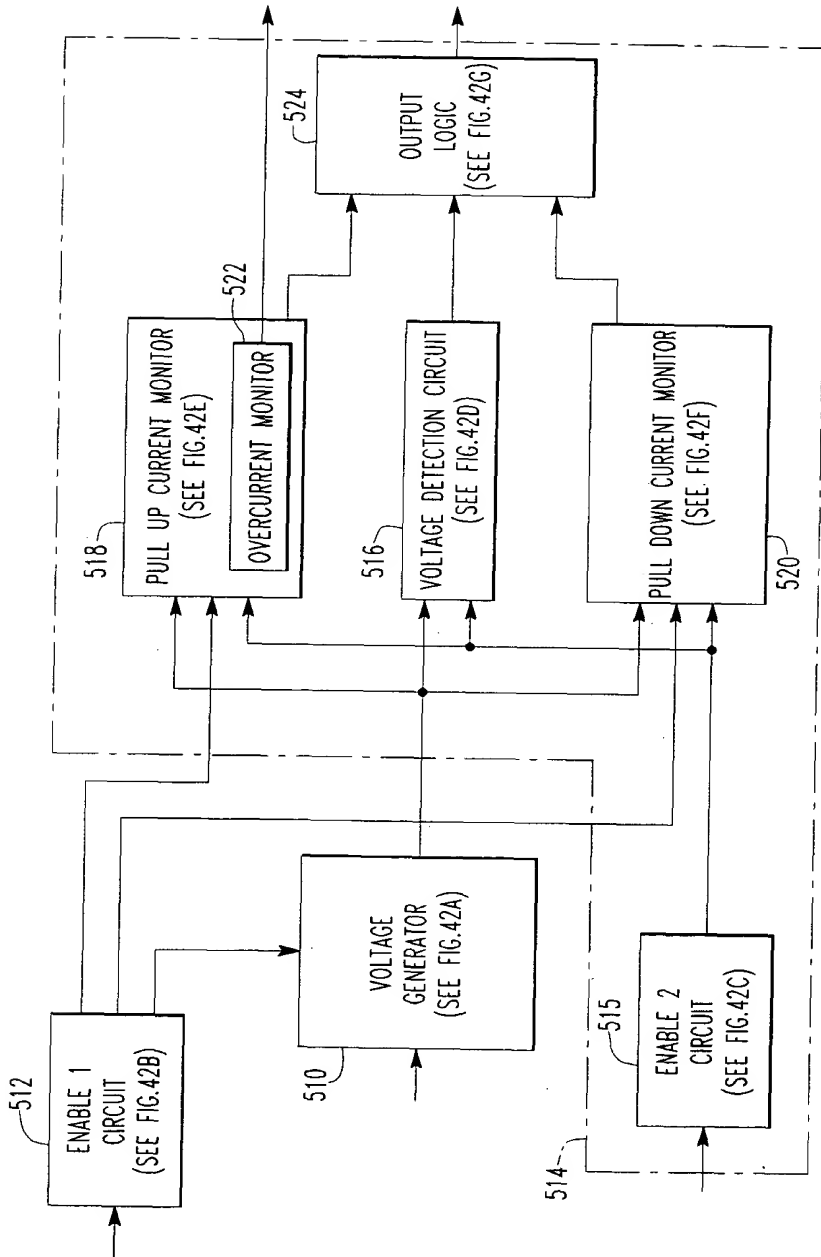


FIG. 41

500

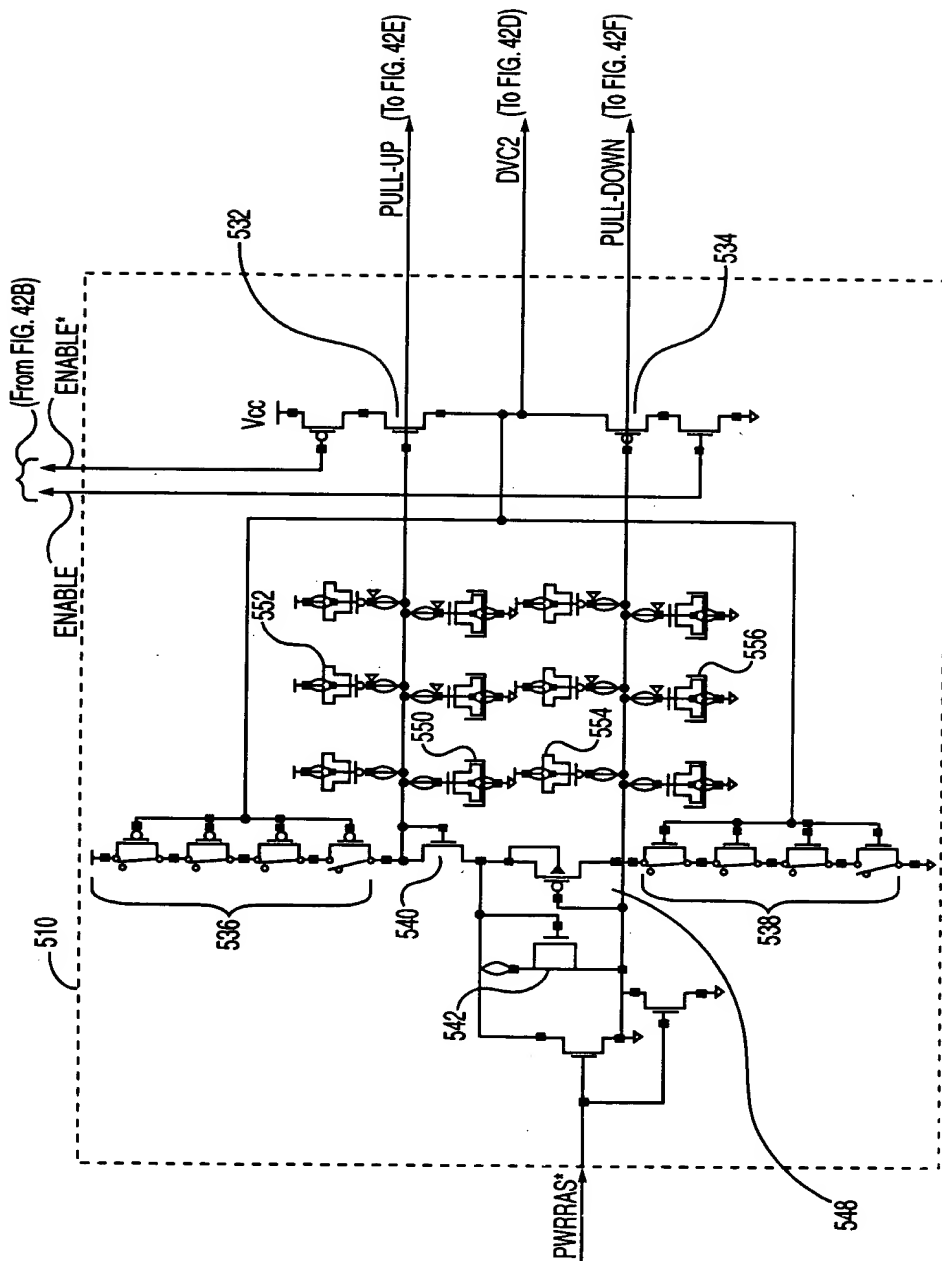


FIG. 42A

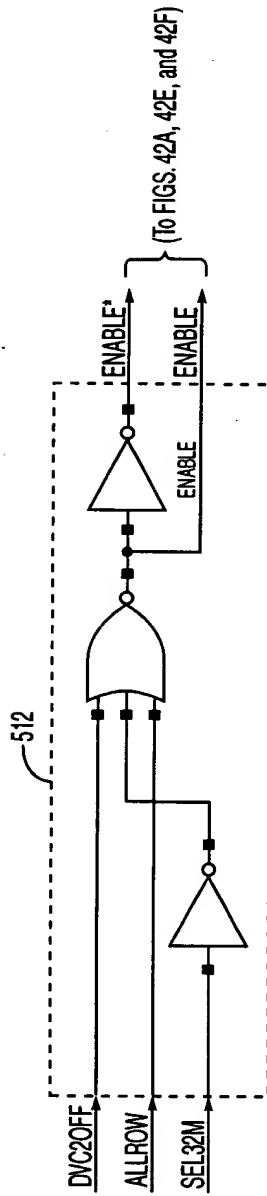


FIG. 42B

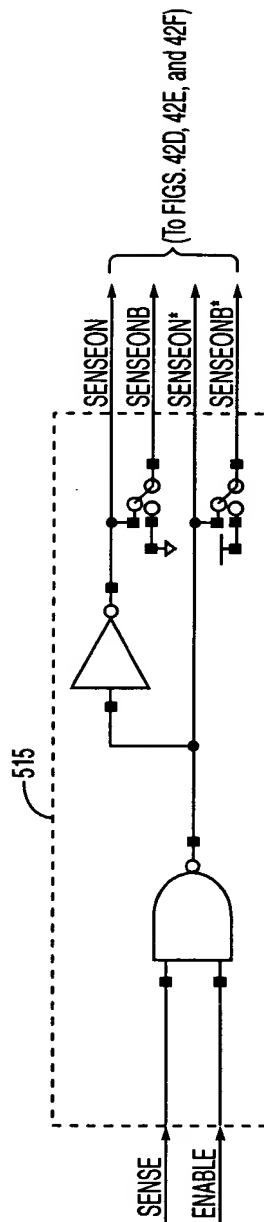


FIG. 42C

FIG. 42D

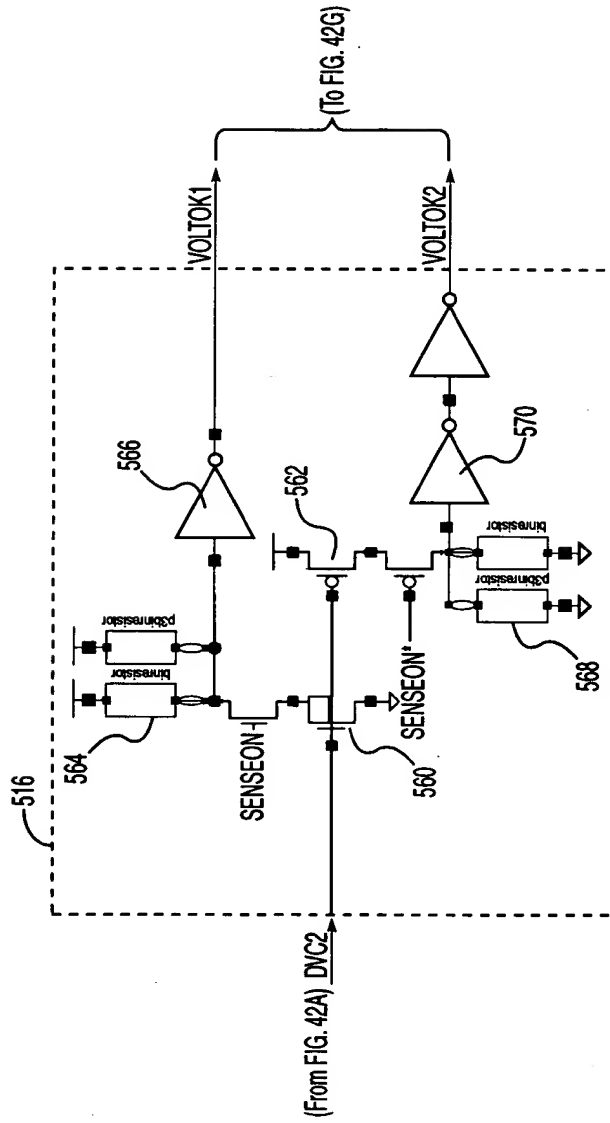


FIG. 42D

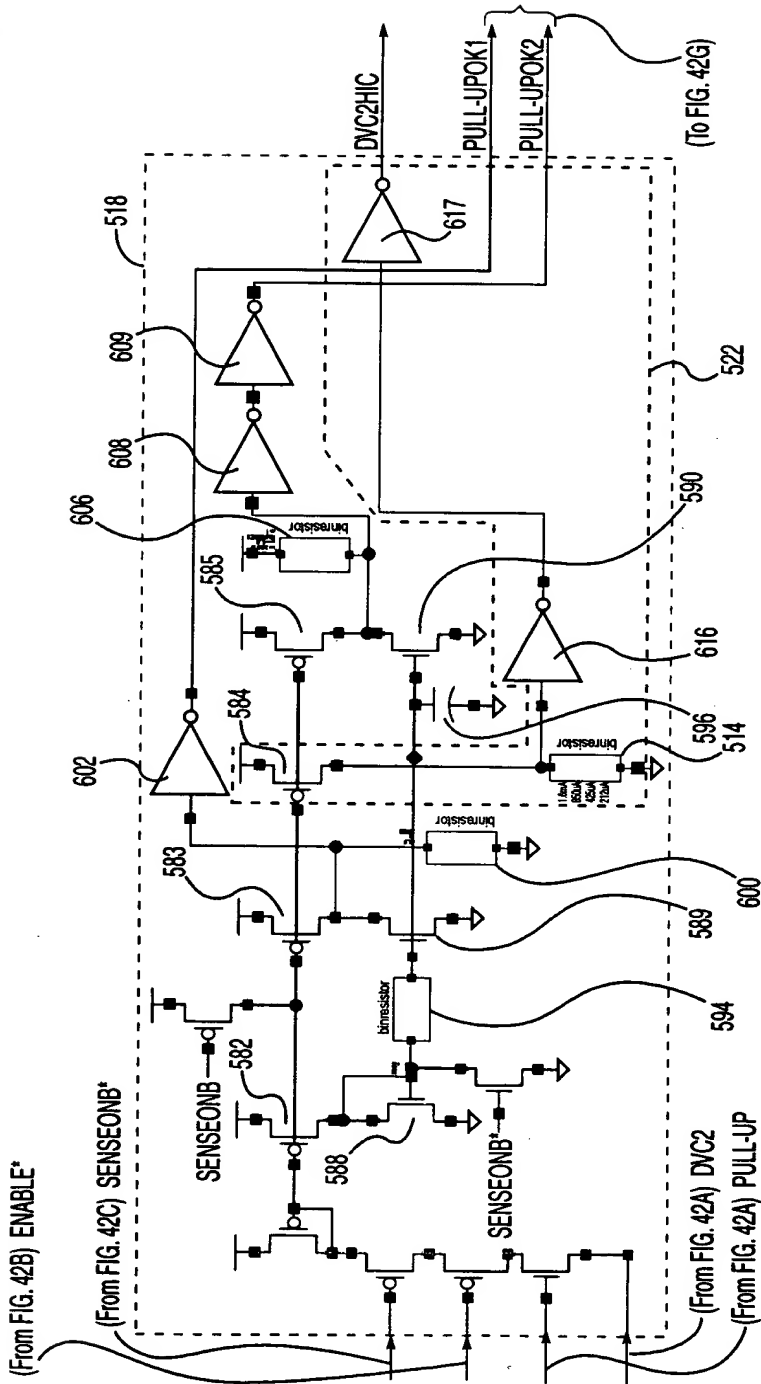


FIG. 42E

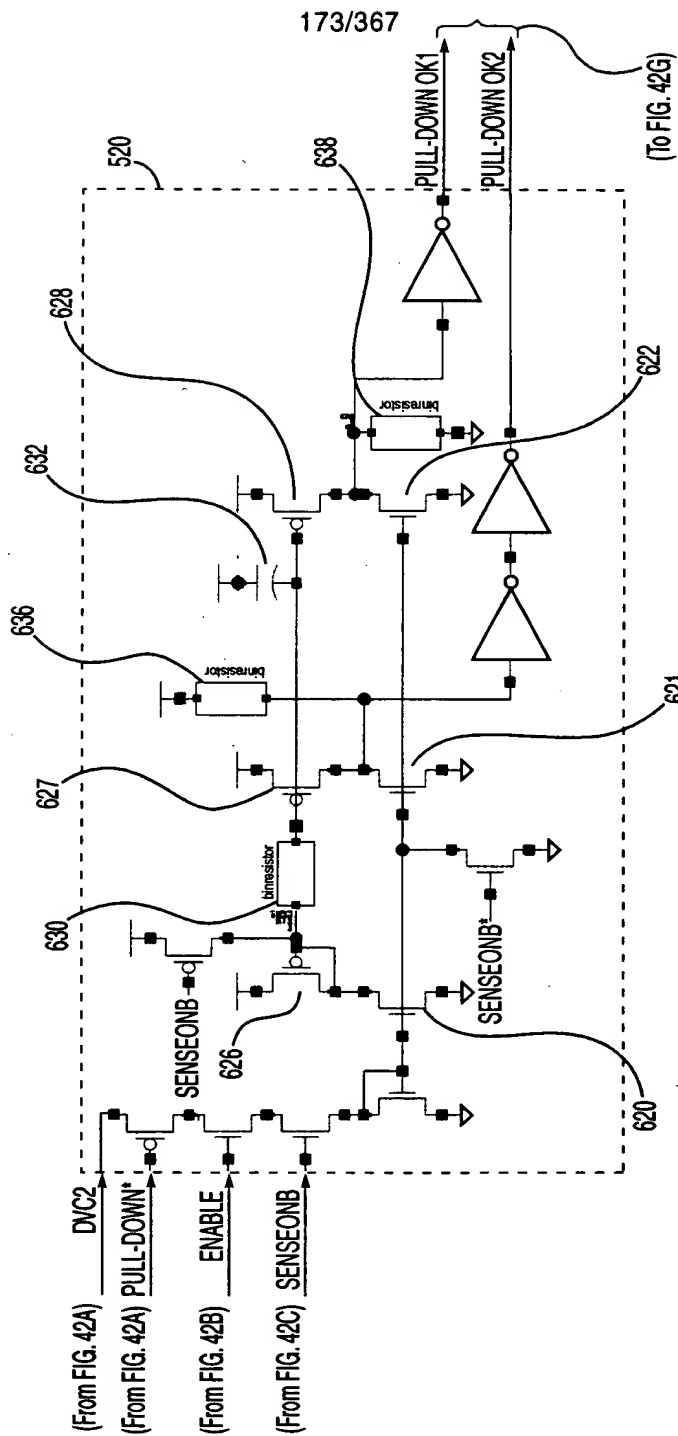


FIG. 42F

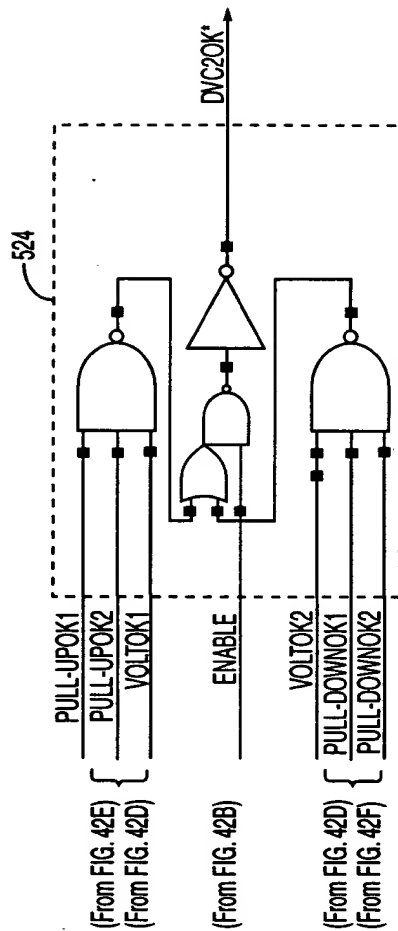


FIG. 42G

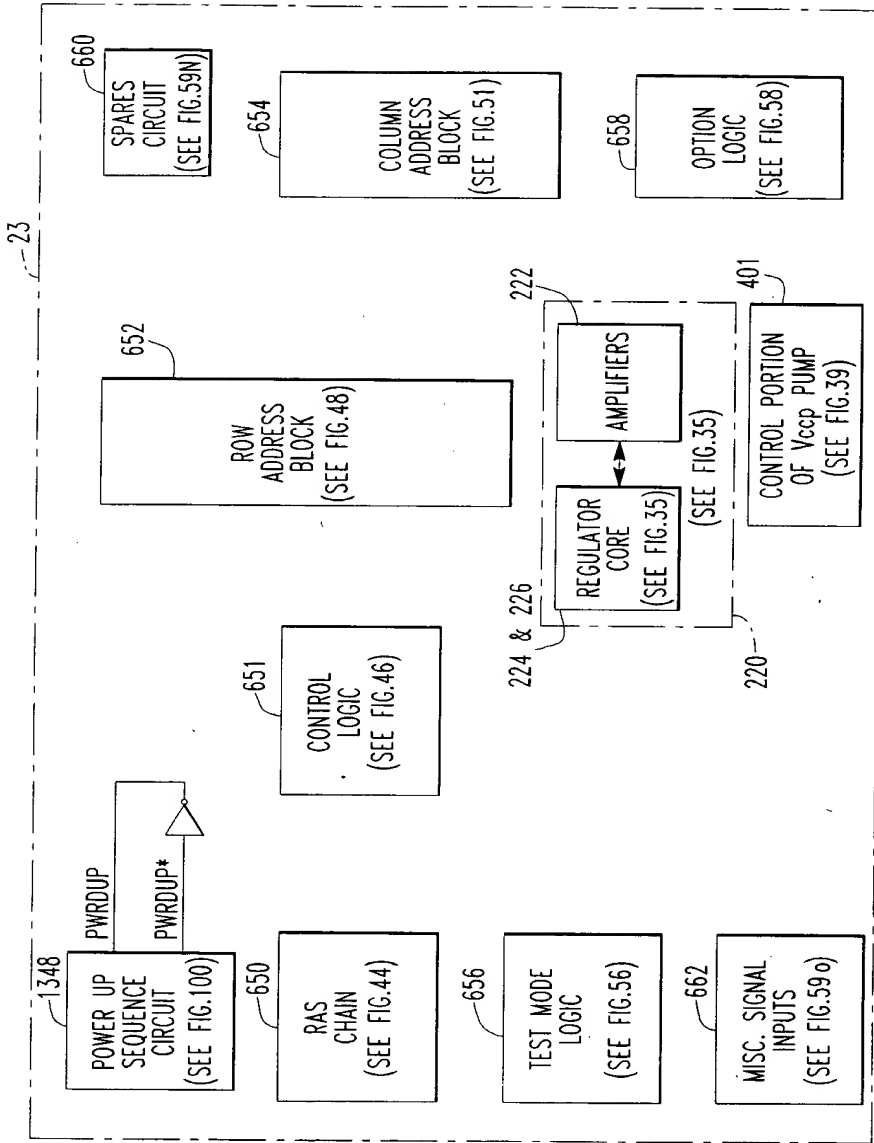


FIG. 43

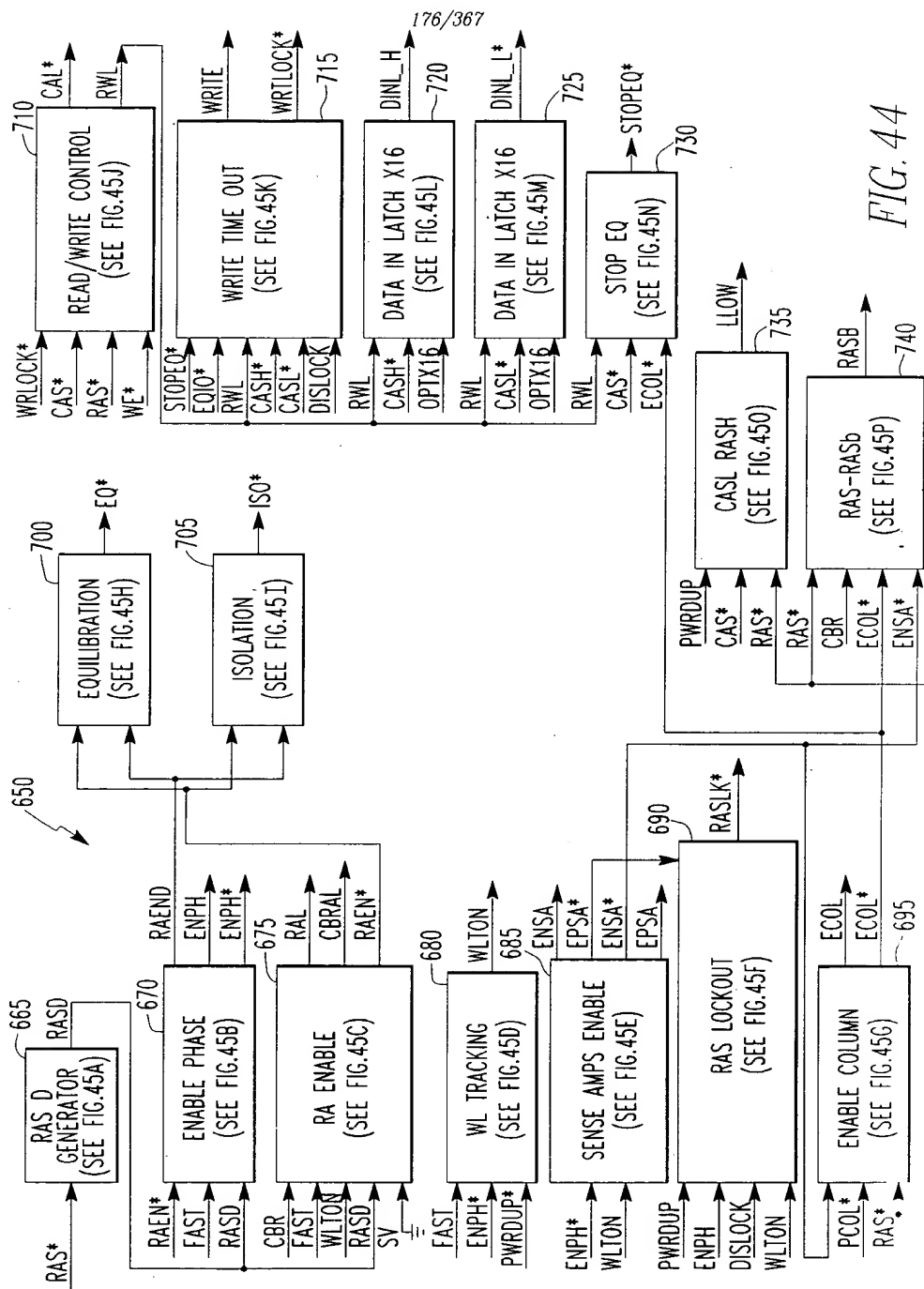


FIG. 44

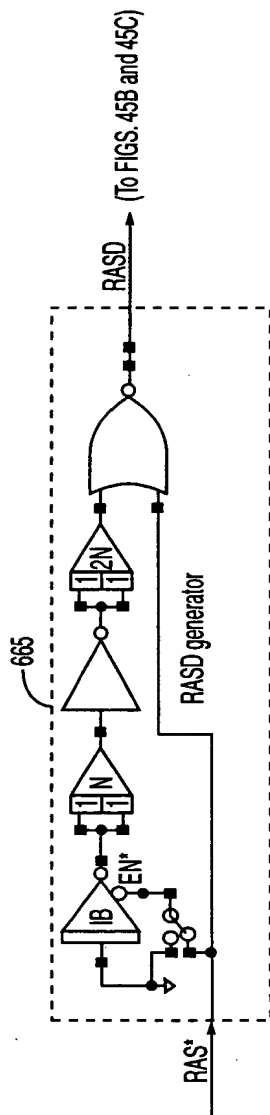


FIG. 45A

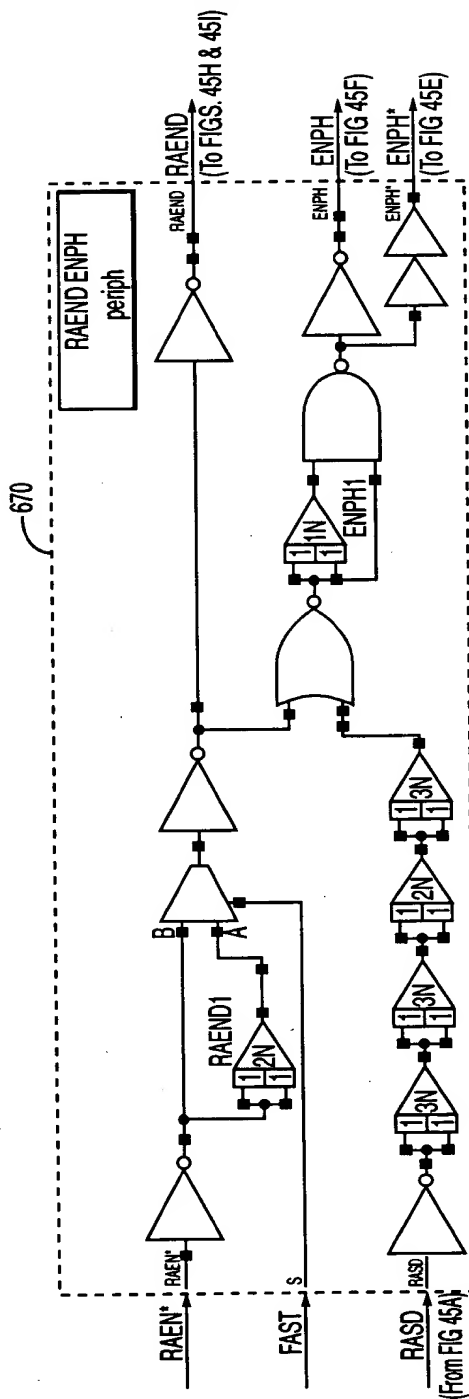


FIG. 45B

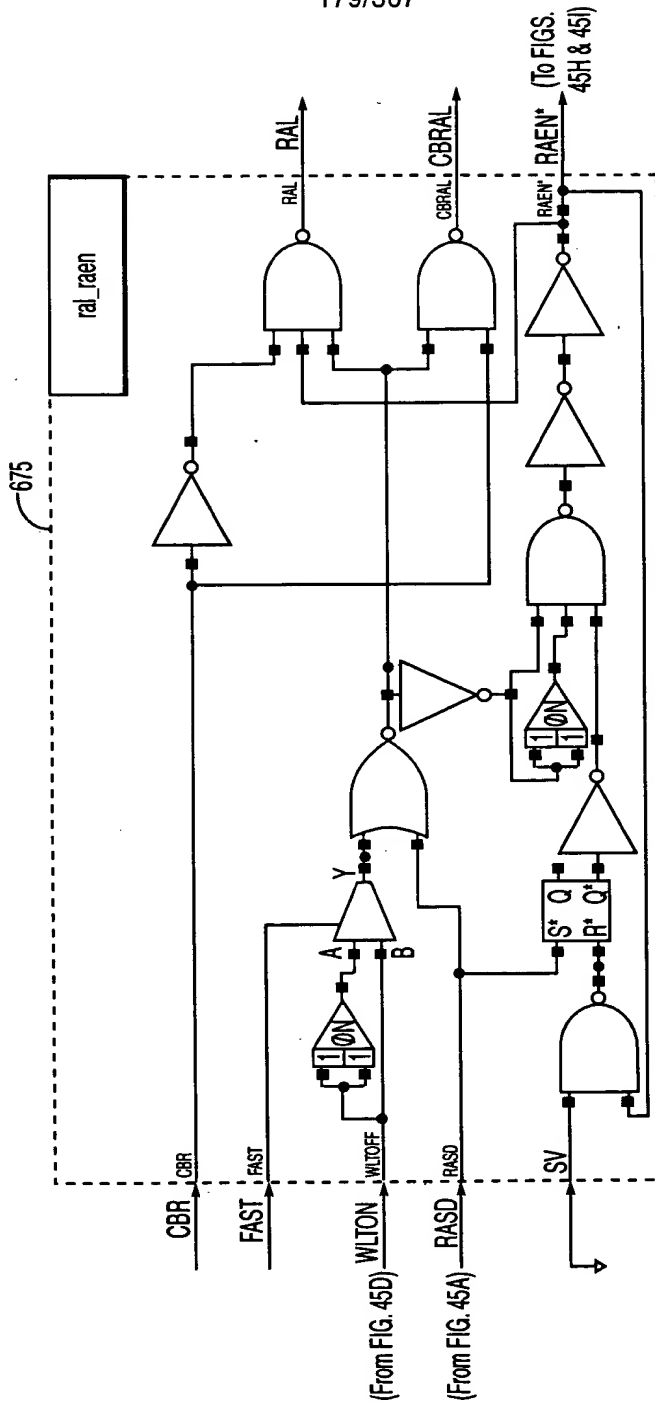


FIG. 45C

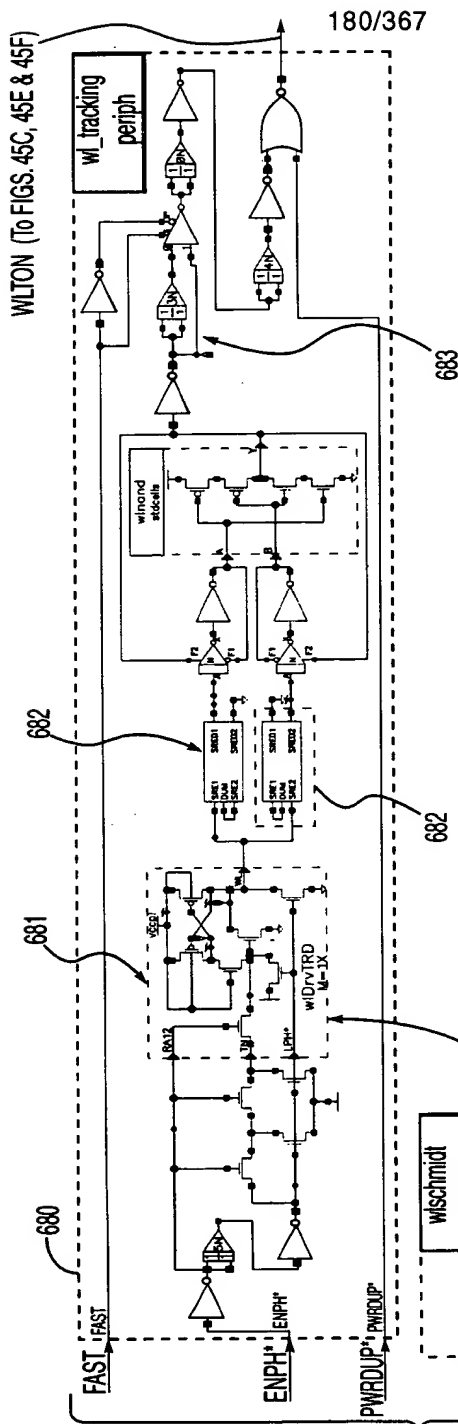
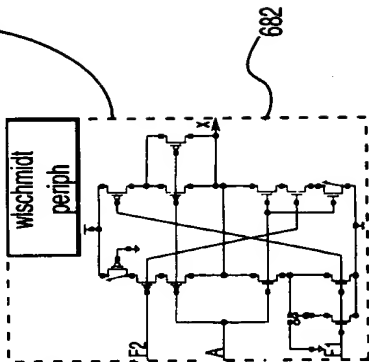


FIG. 45D



(From FIG. 45B)

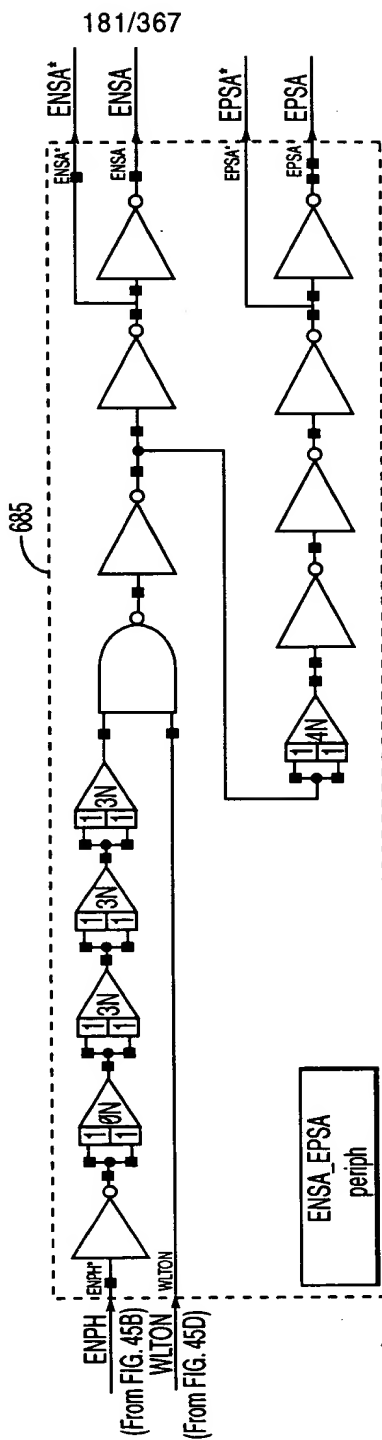


FIG. 45E

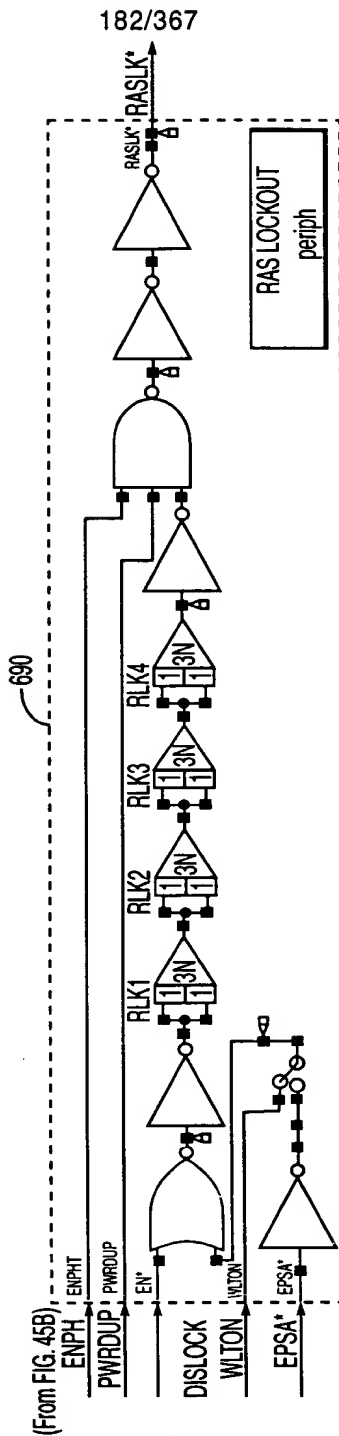


FIG. 45F

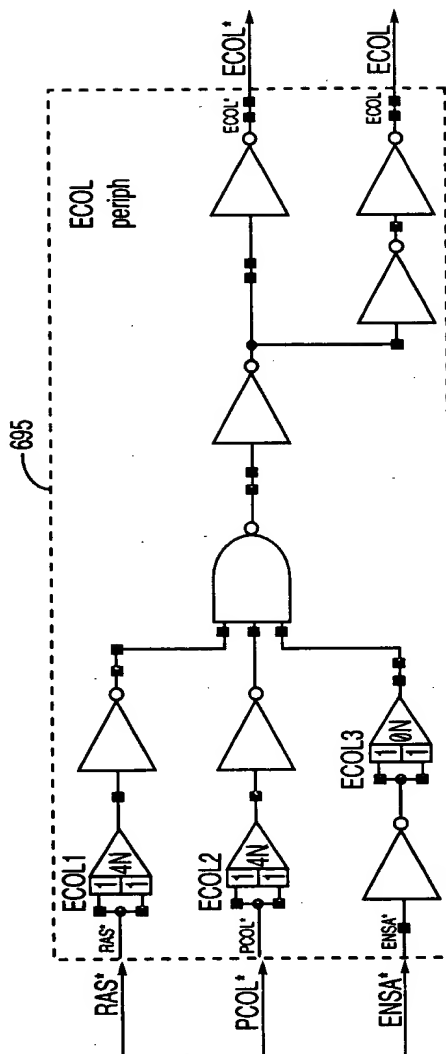


FIG. 45G

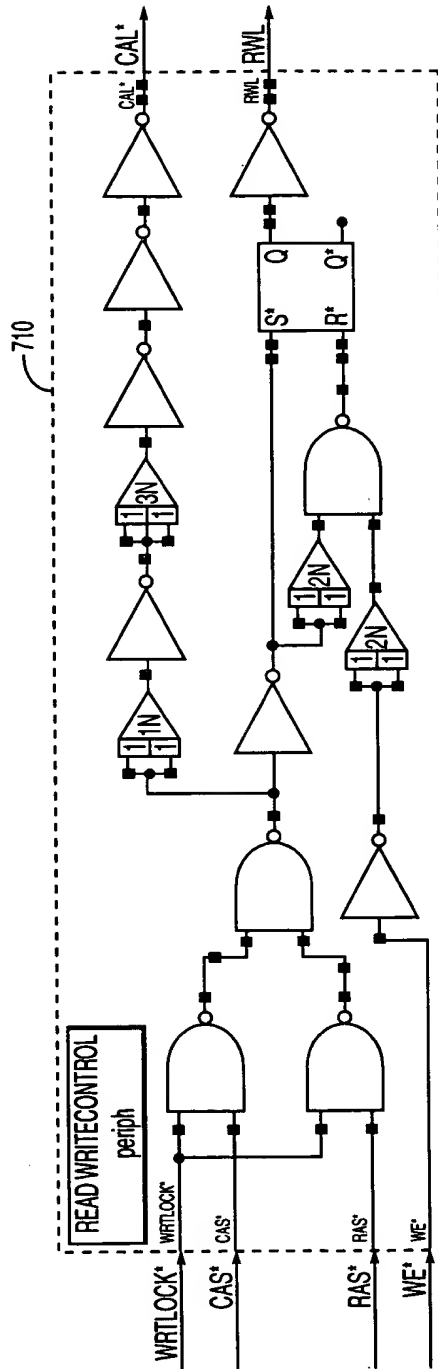


FIG. 45J

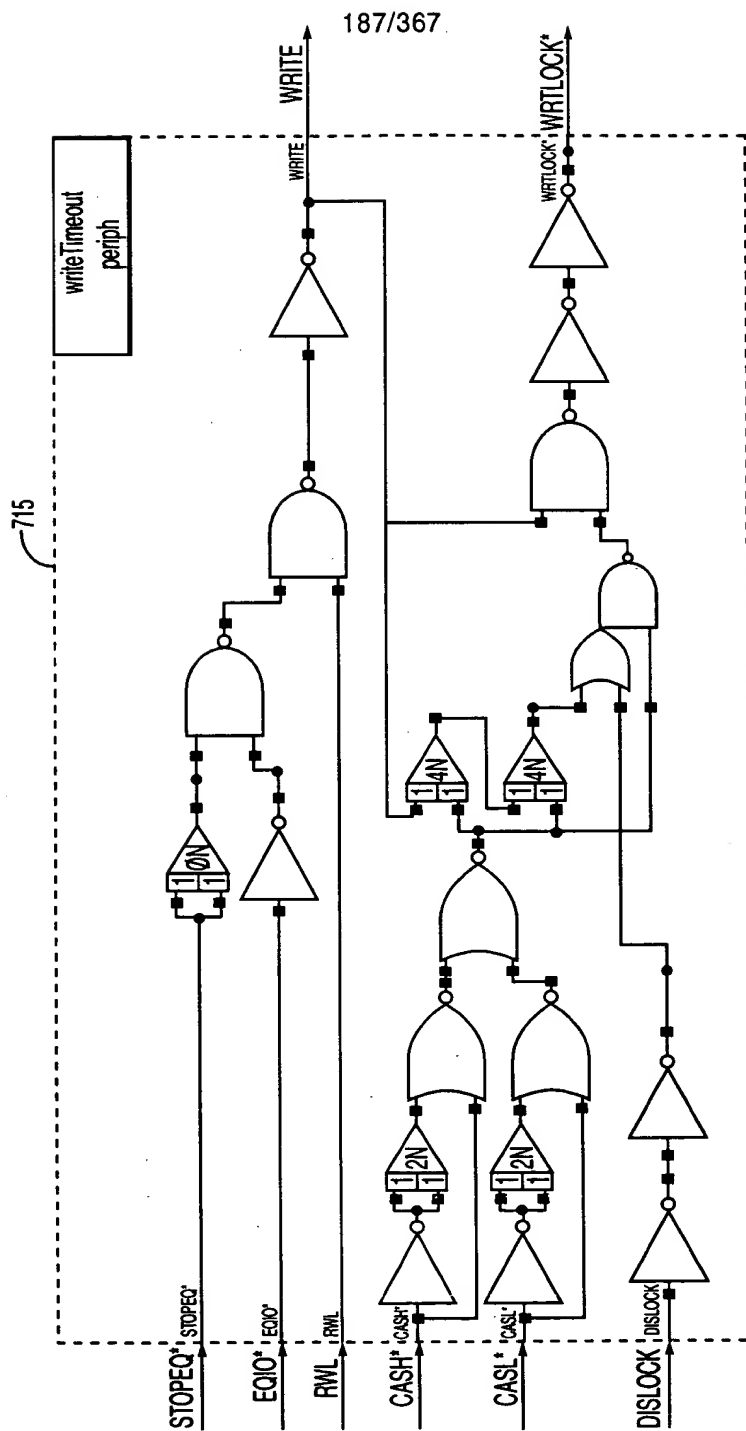


FIG. 45K

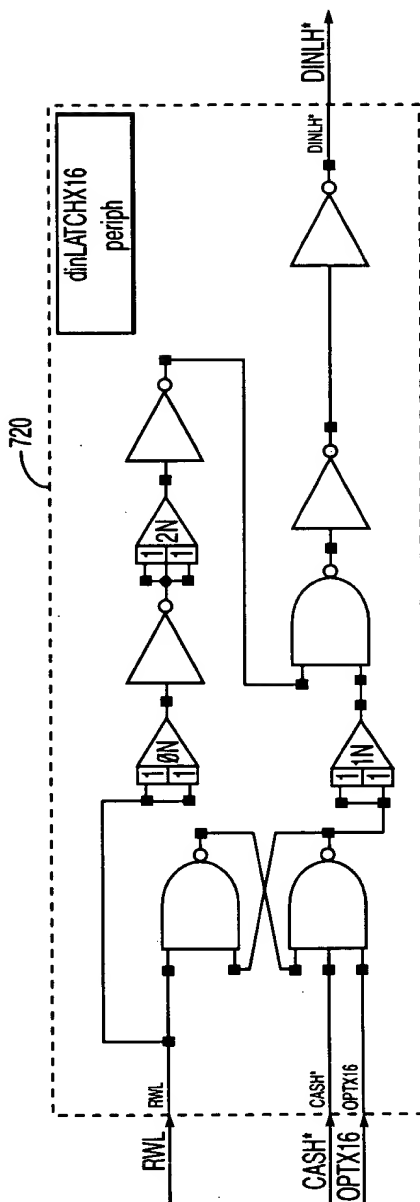


FIG. 45L

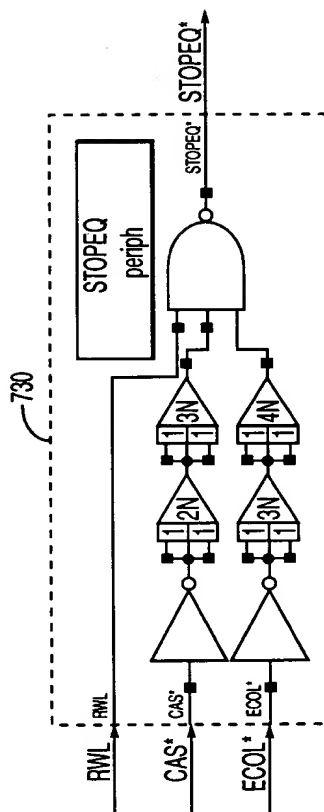


FIG. 45N

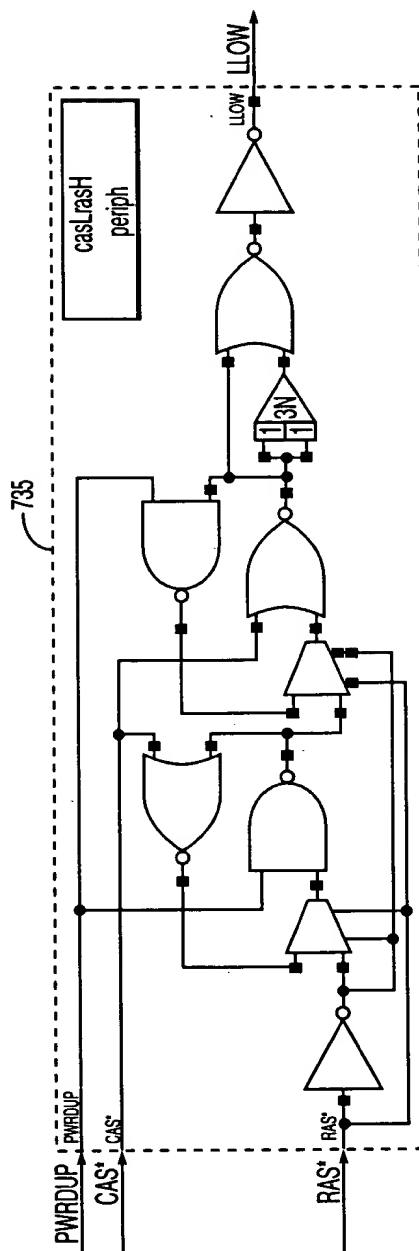


FIG. 450

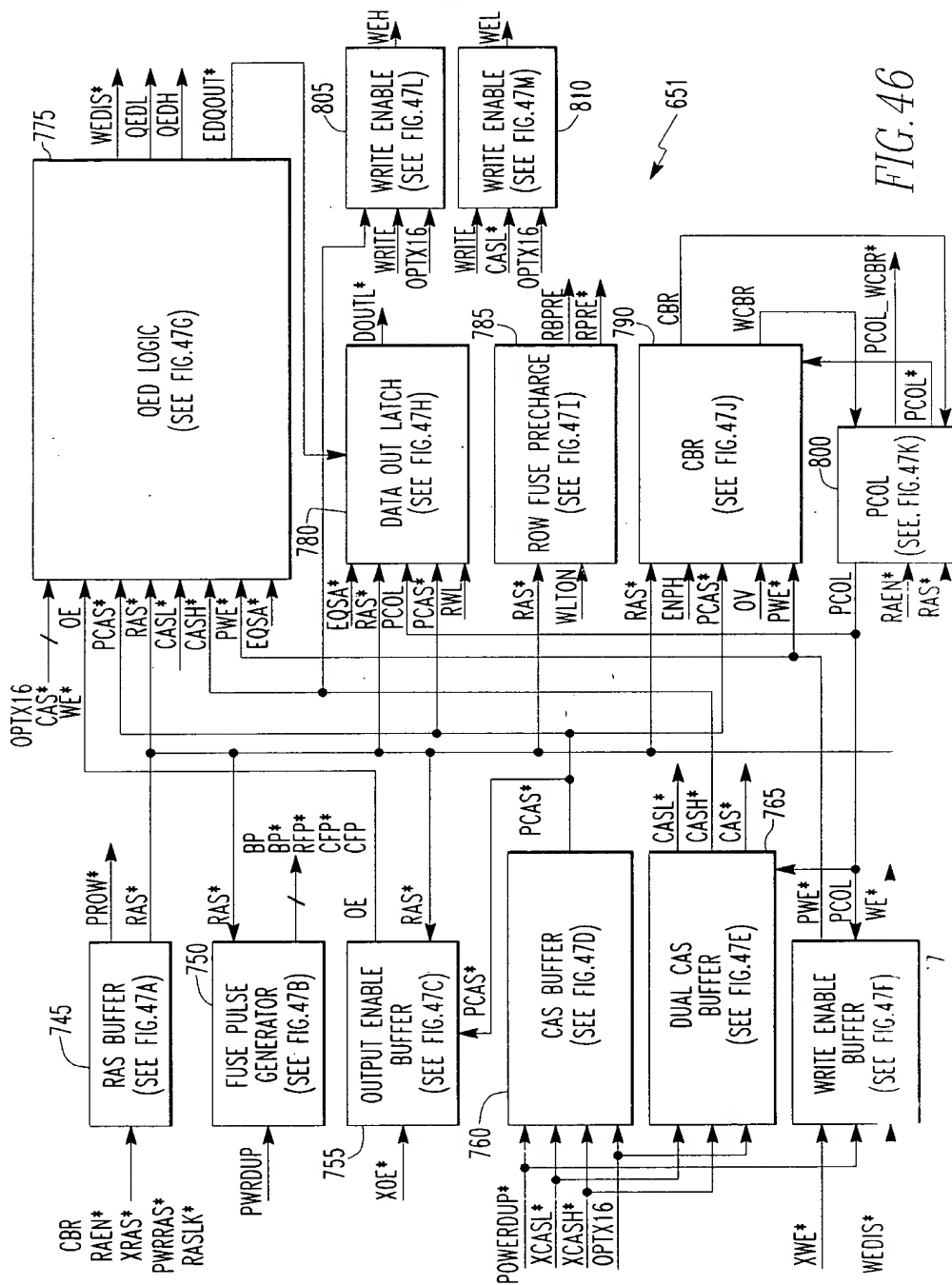


FIG. 46



FIG. 47A

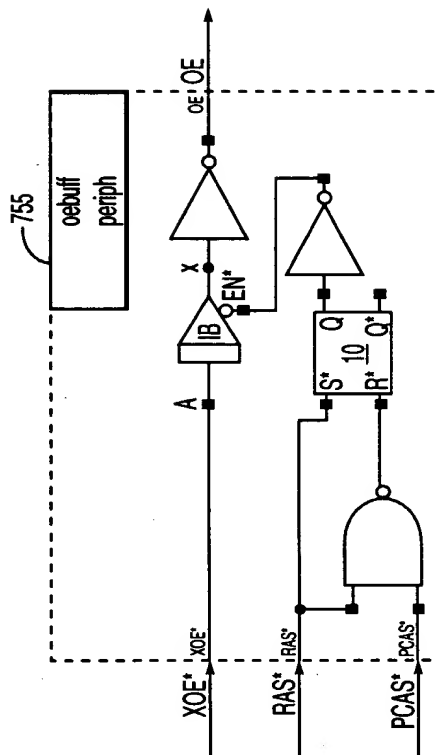


FIG. 47C

FIG. 47E

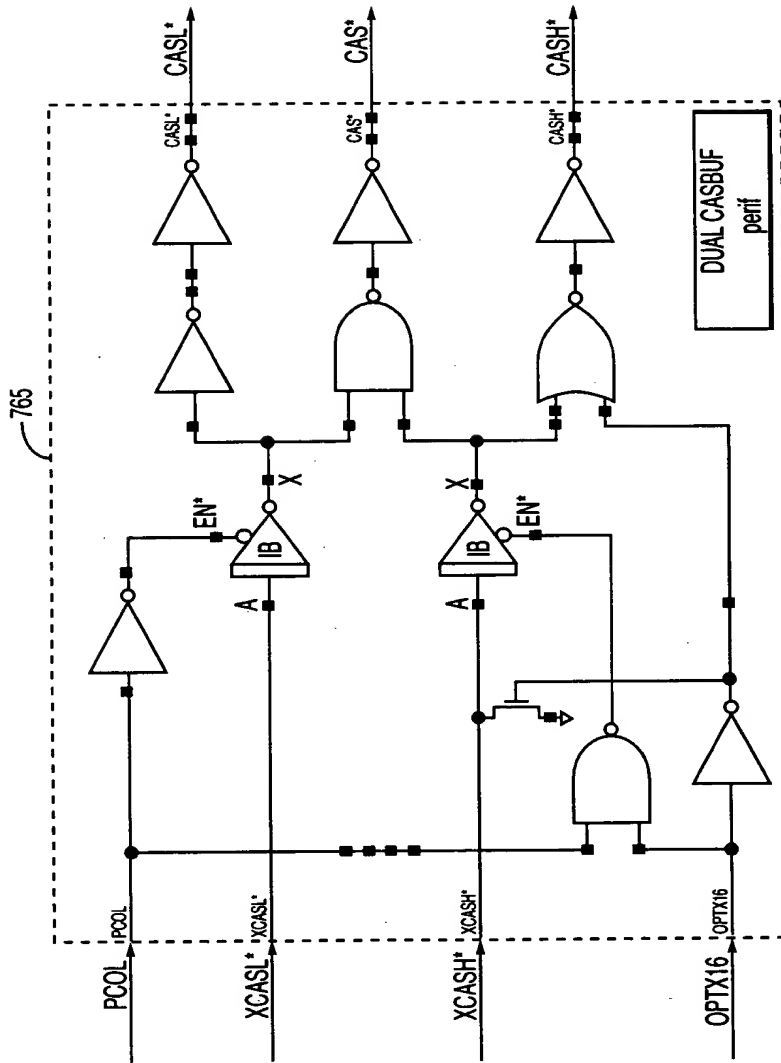


FIG. 47E

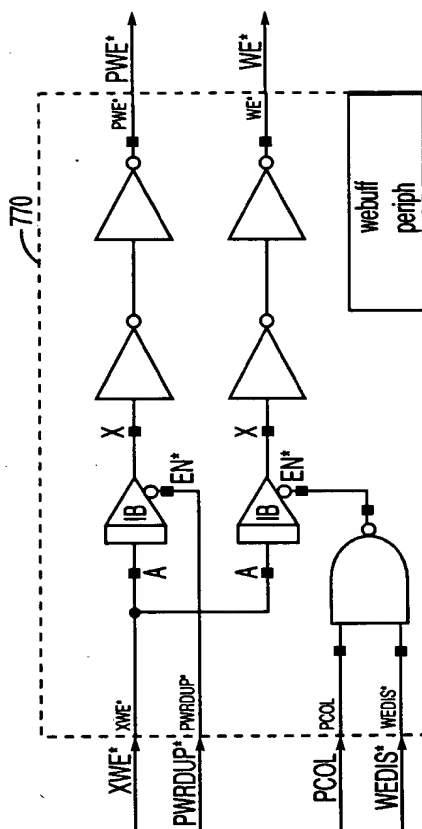


FIG. 47F

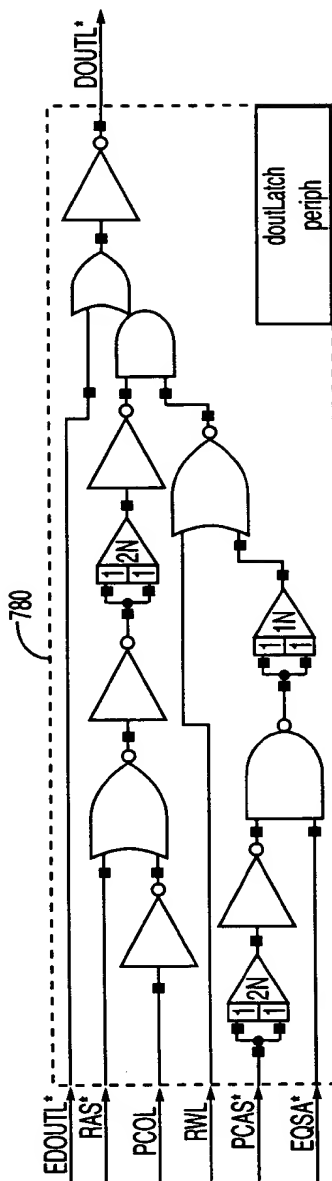
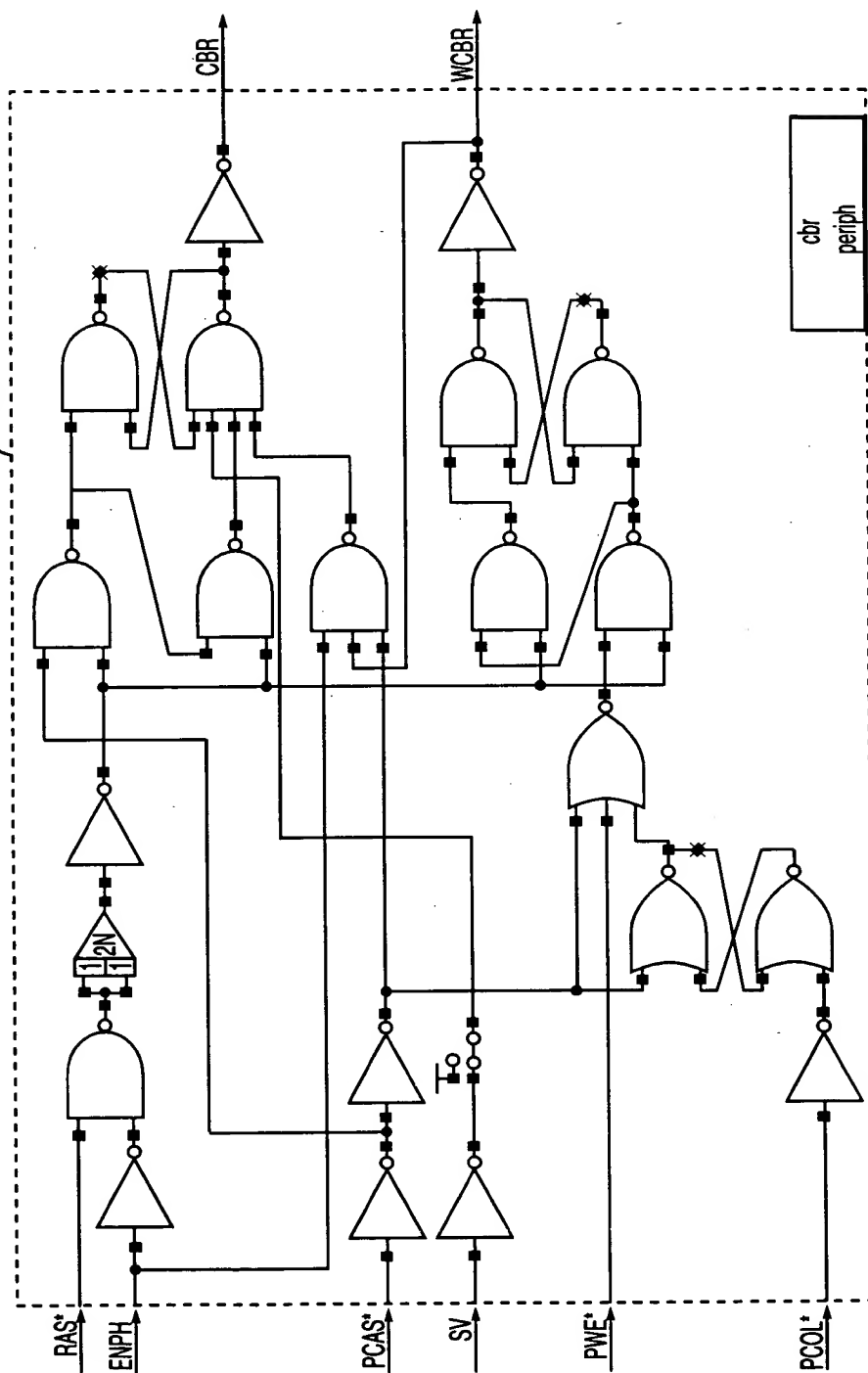


FIG. 47H



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periph

FIG. 47J

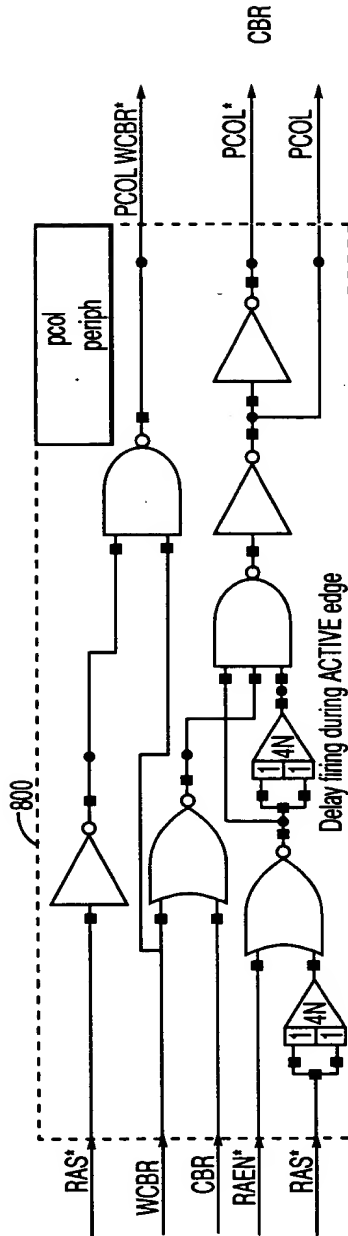


FIG. 47K

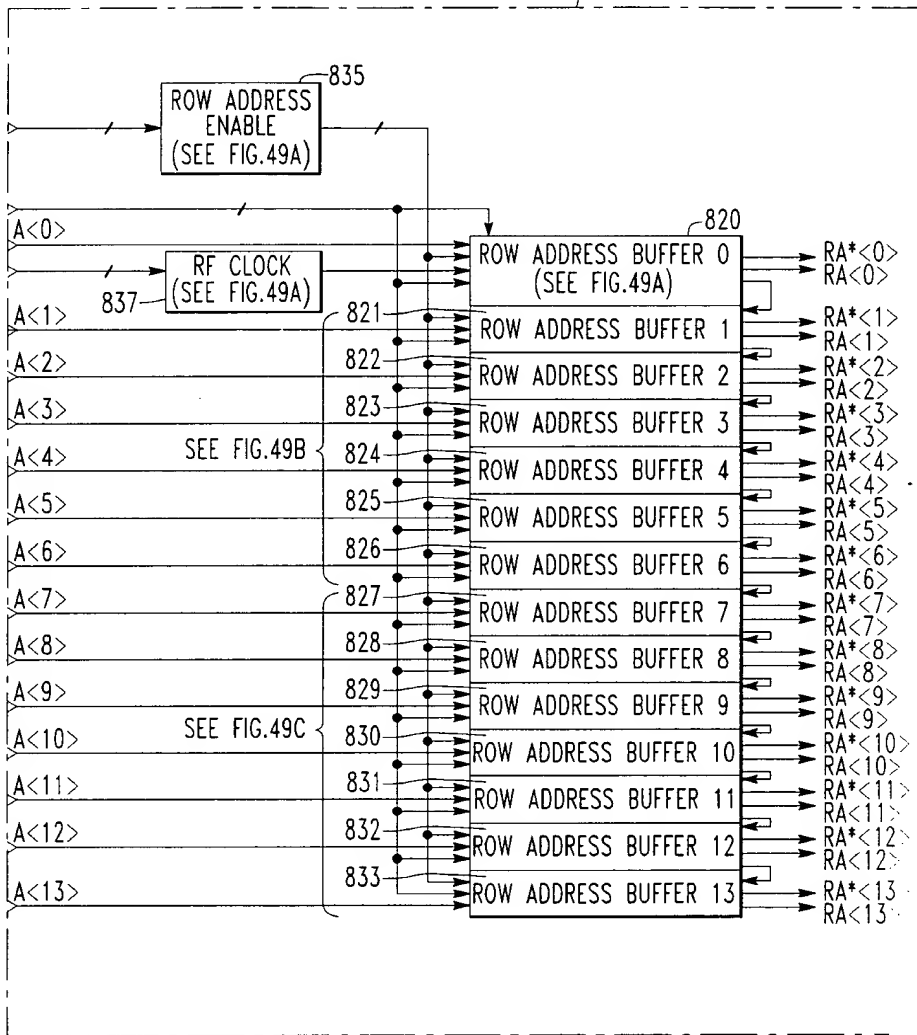


FIG. 48A

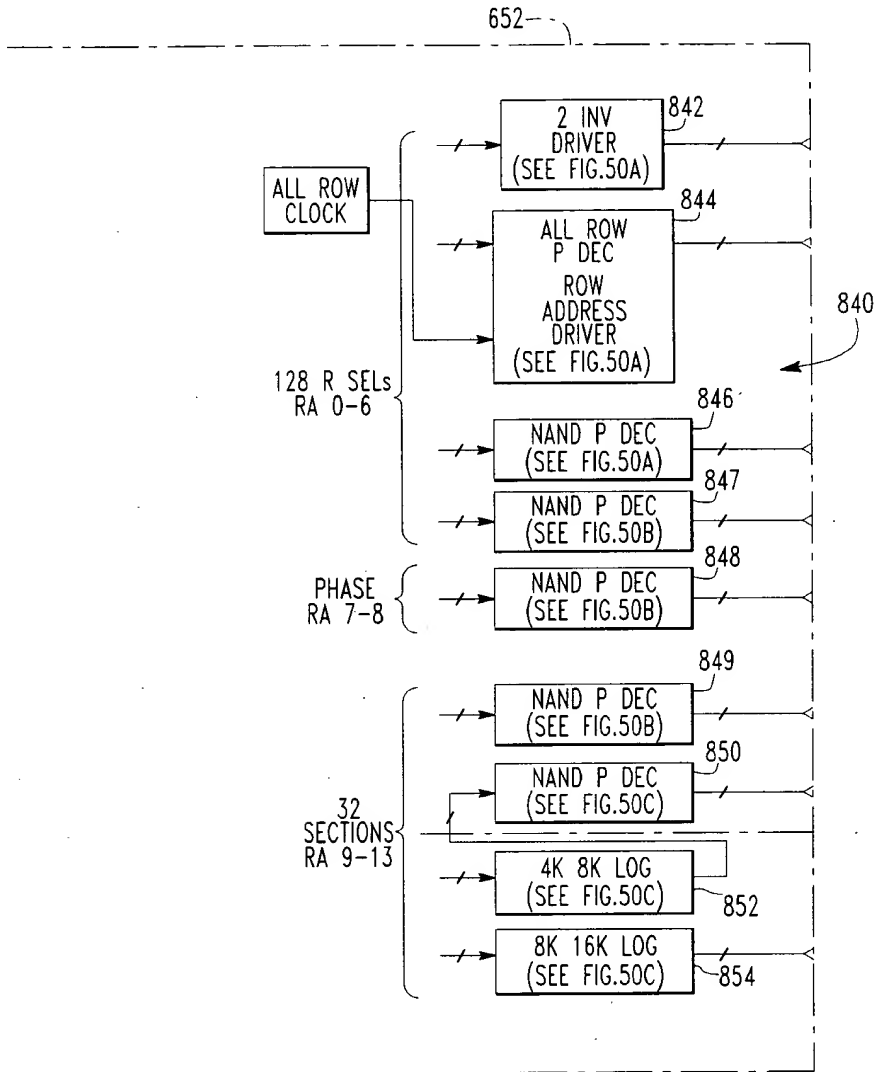
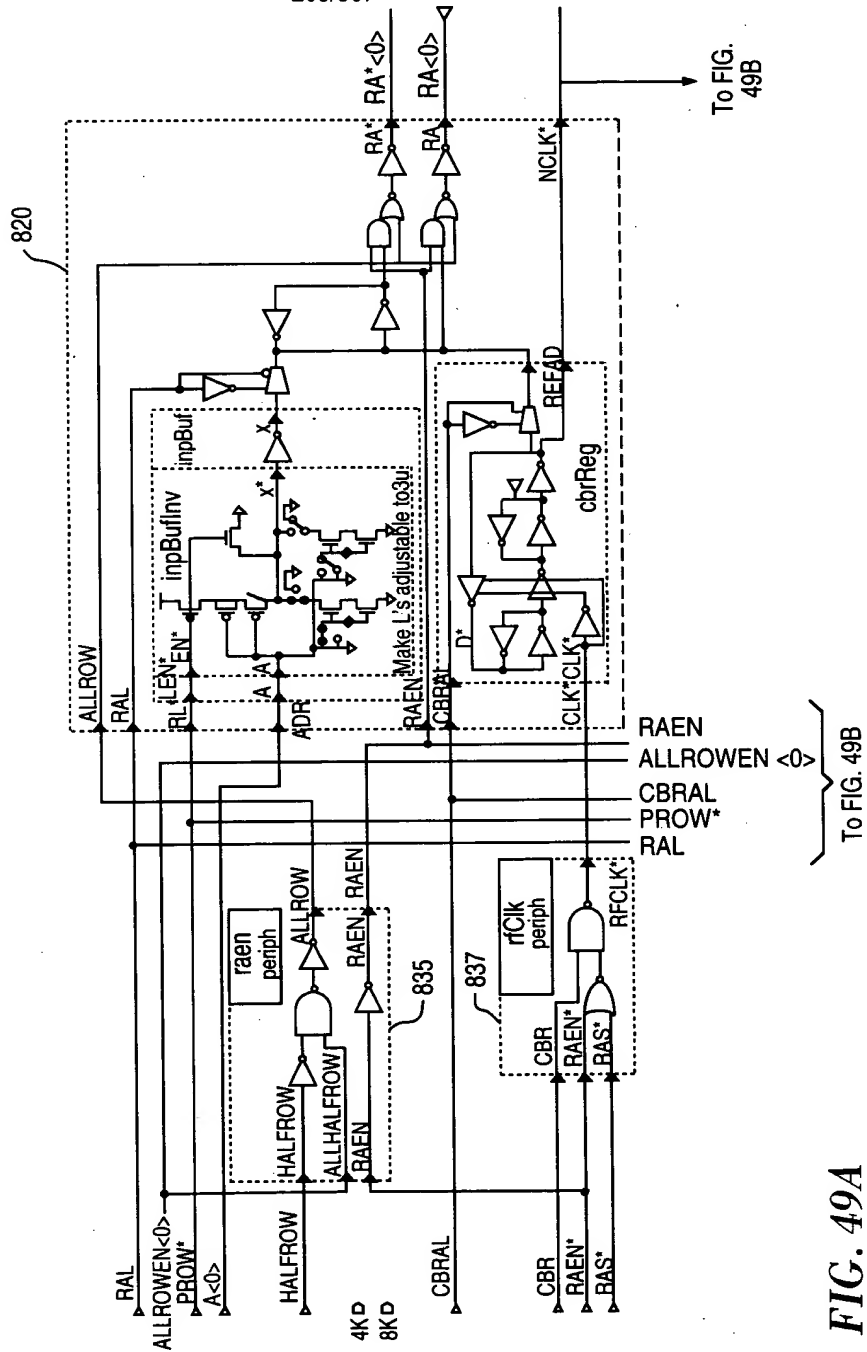
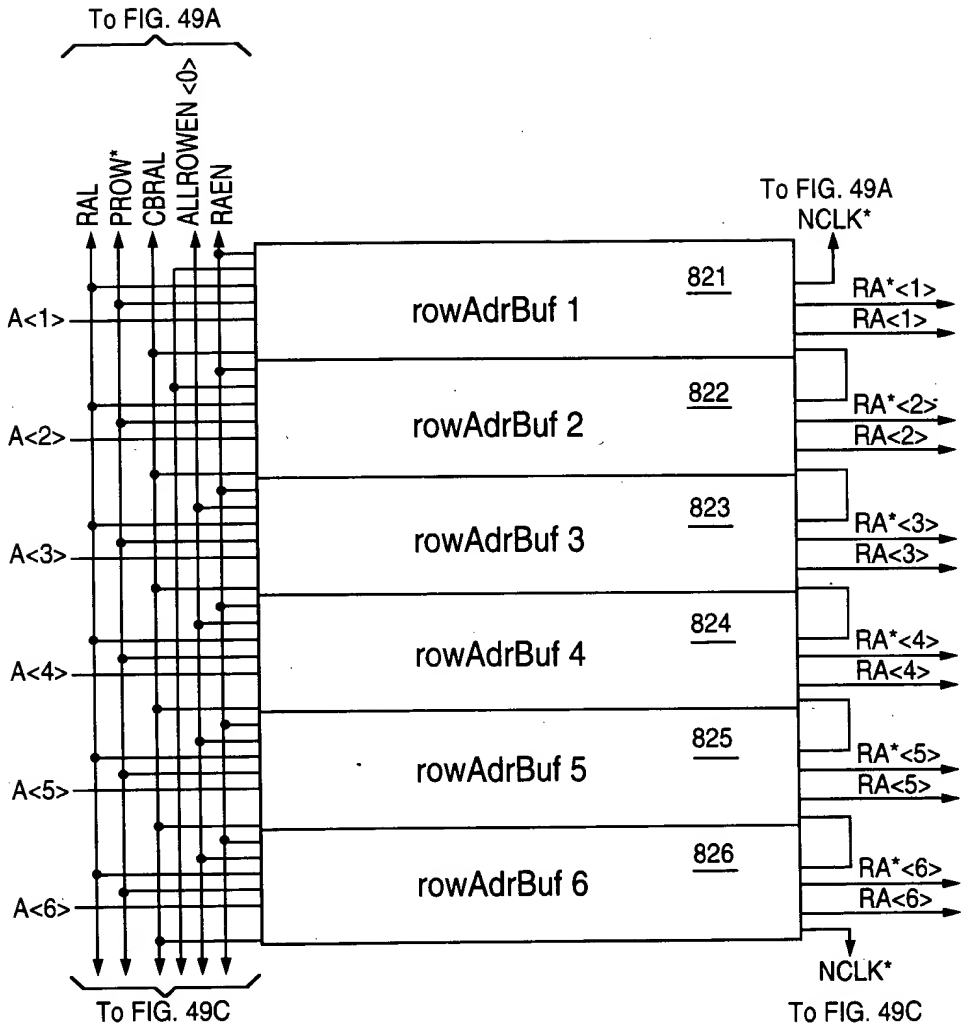


FIG. 48B



**FIG. 49B**

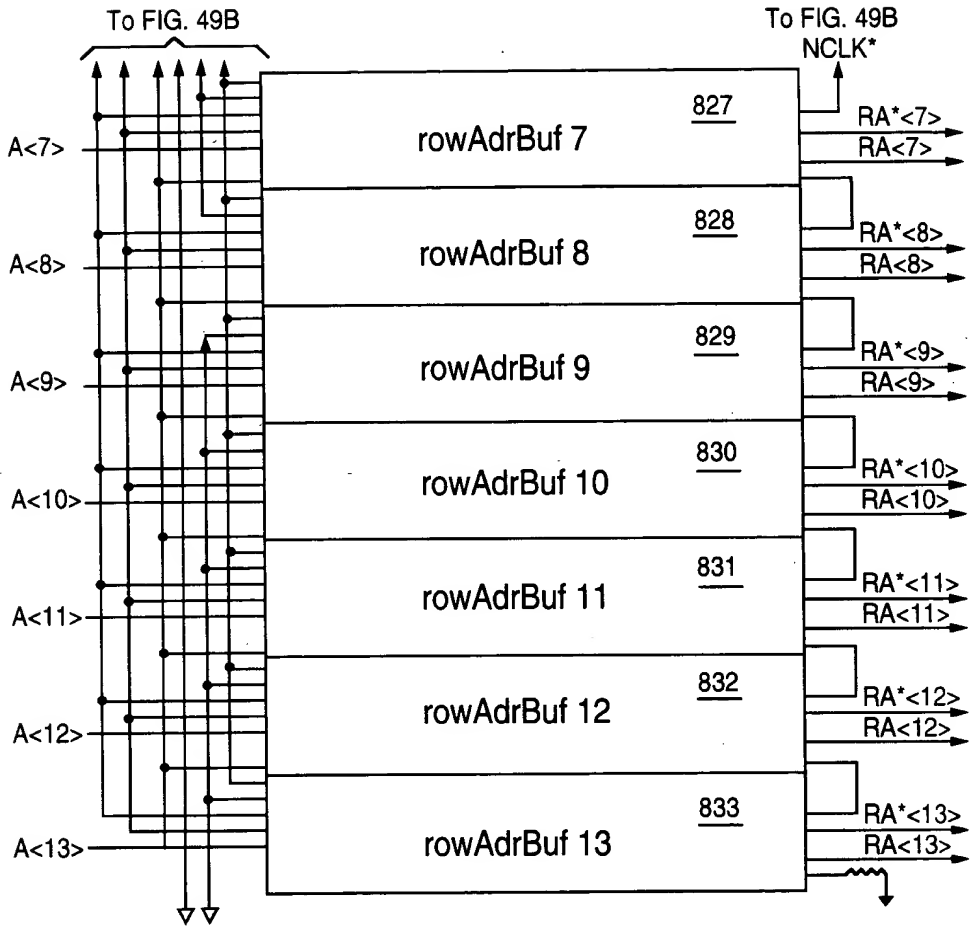


FIG. 49C

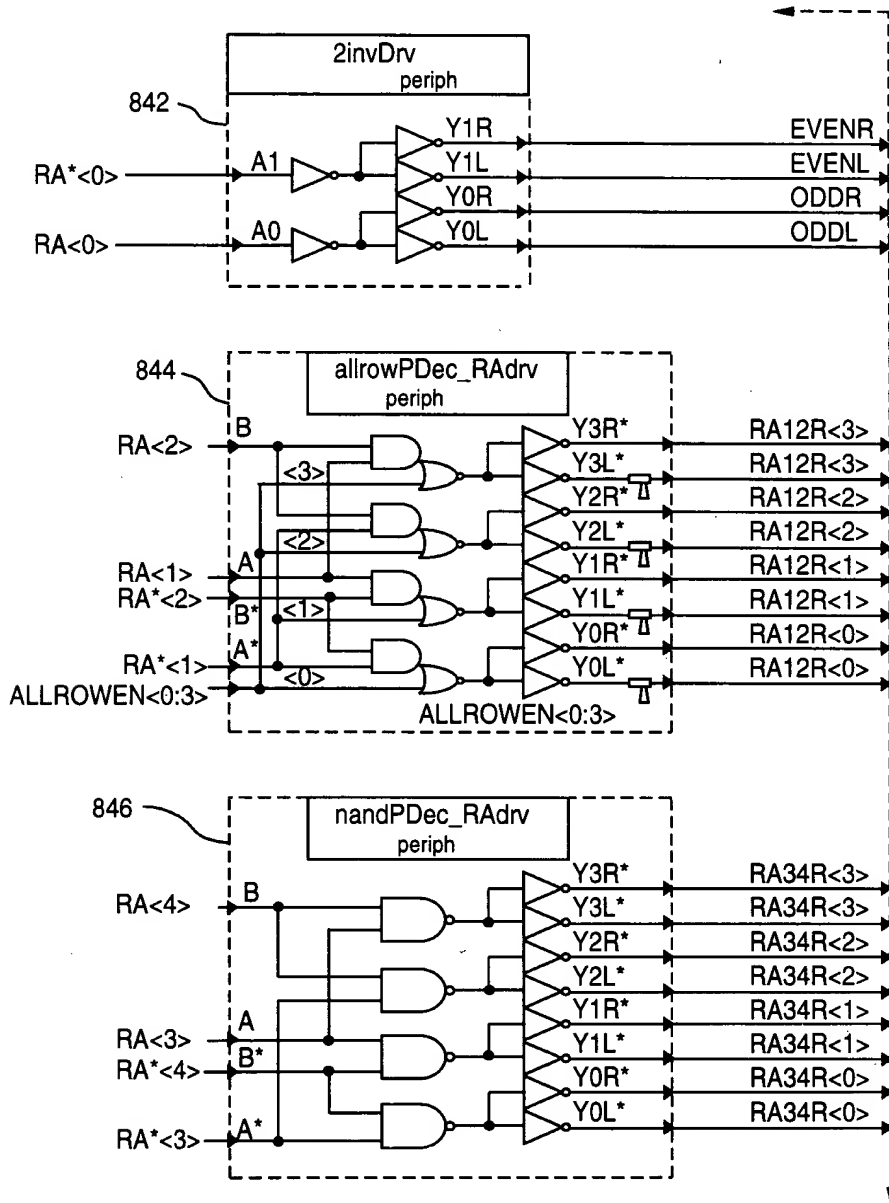


FIG. 50A

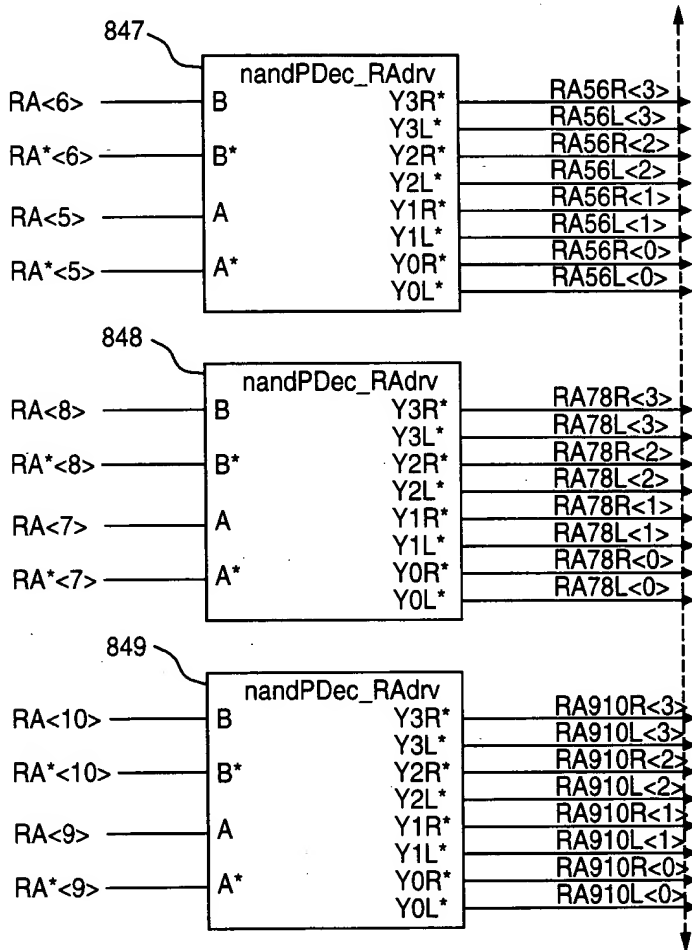


FIG. 50B

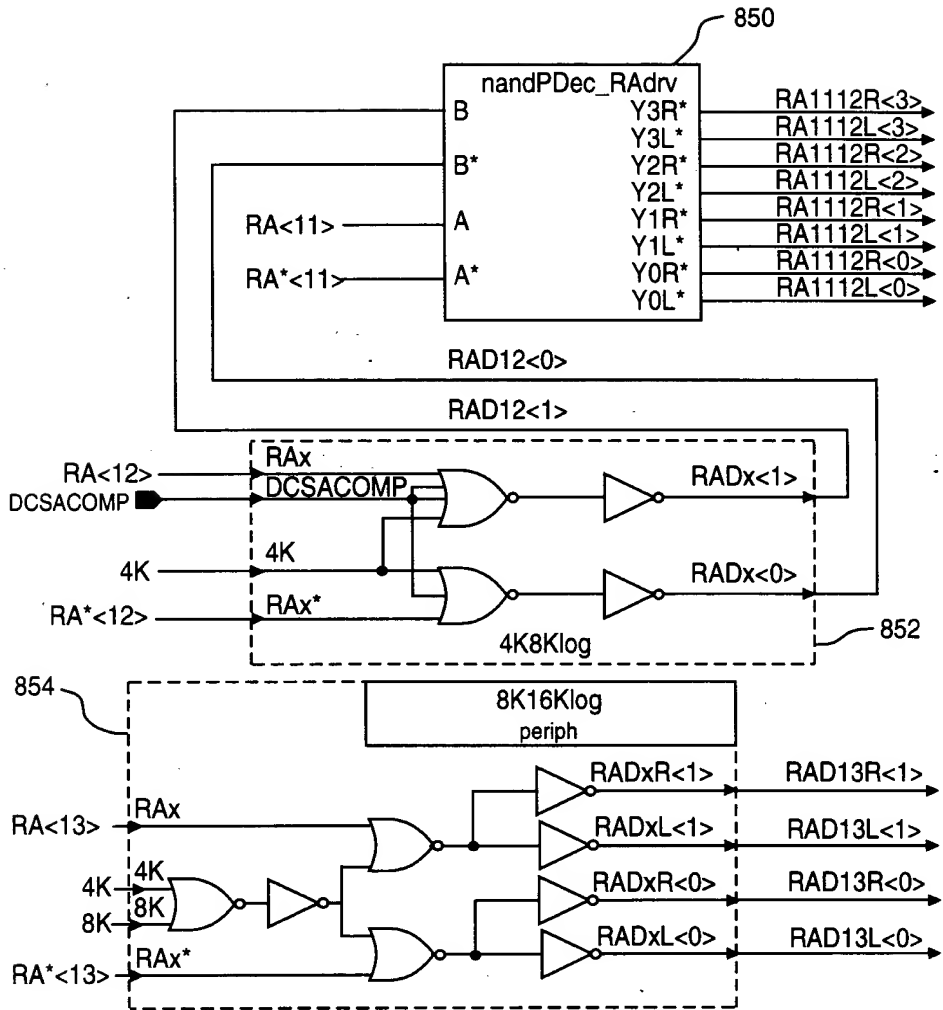


FIG. 50C

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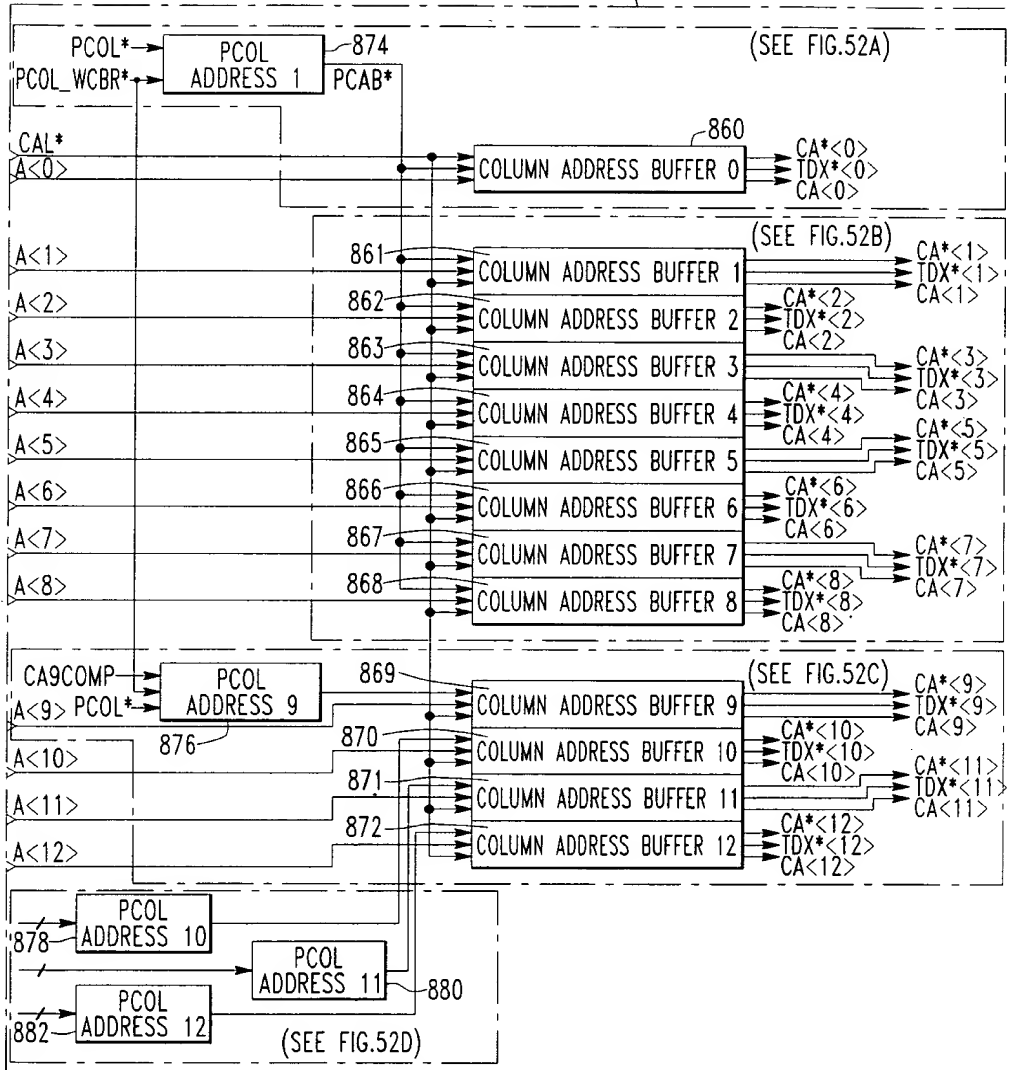


FIG. 51A

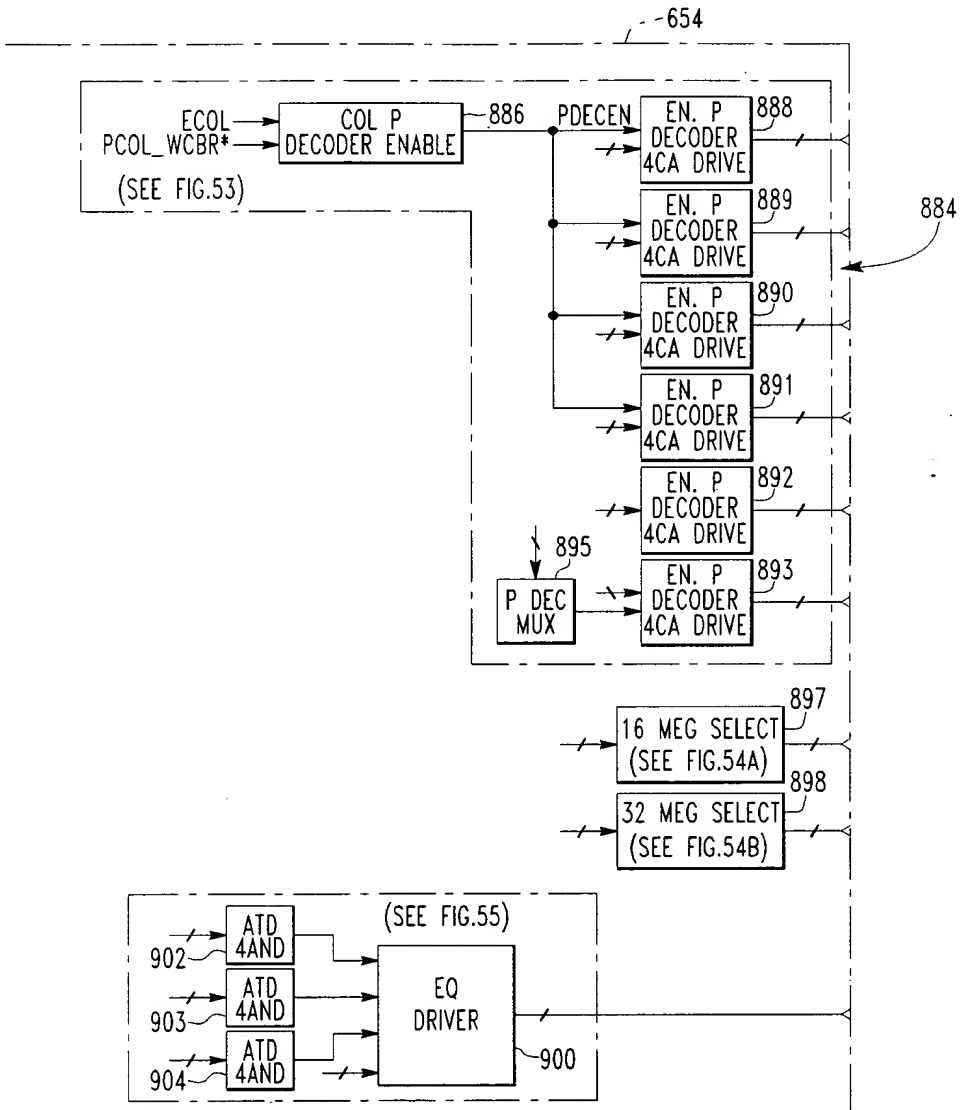
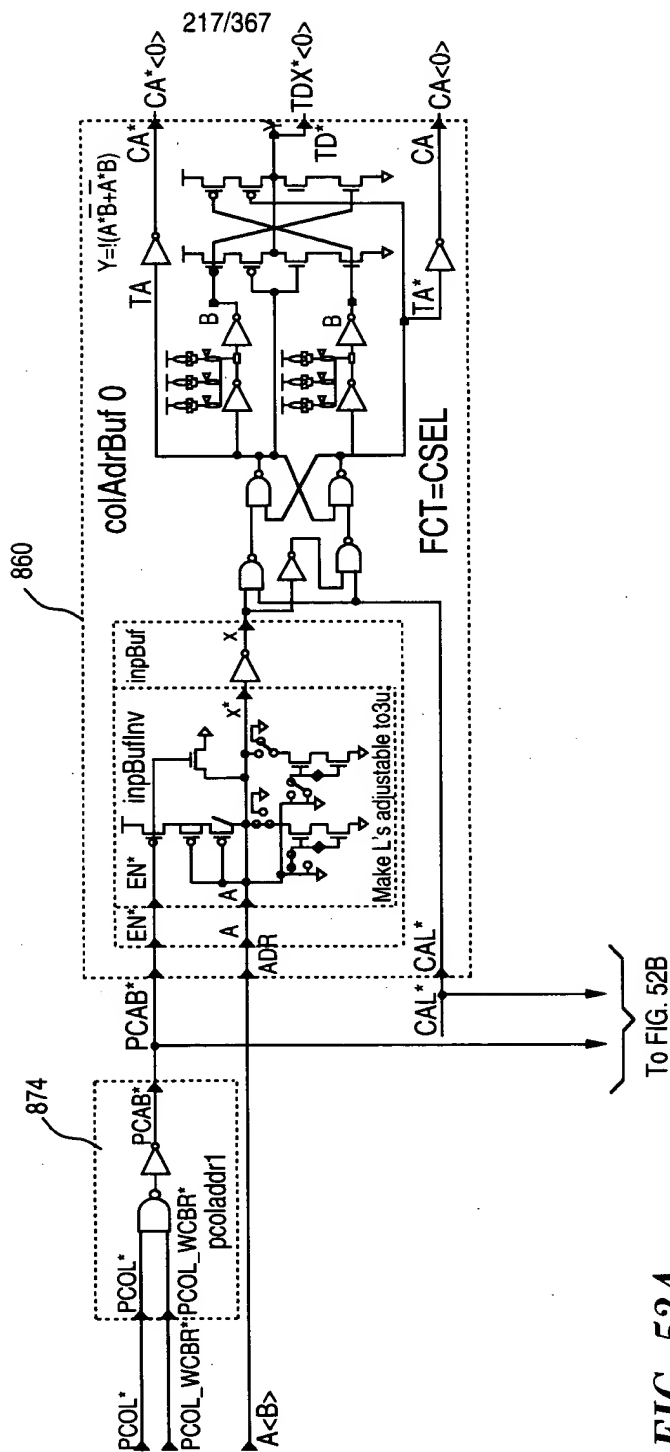


FIG. 51B



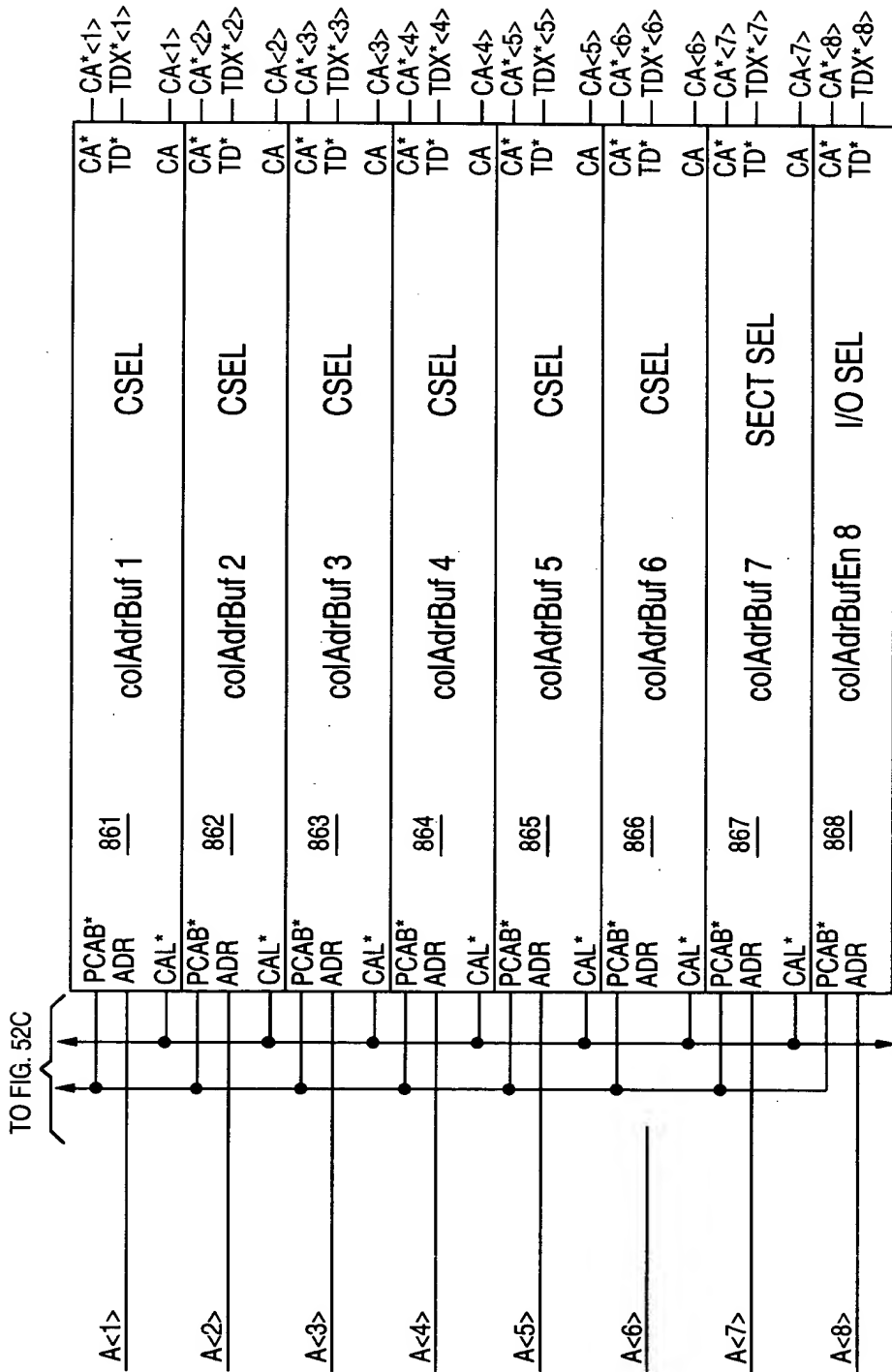
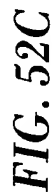


FIG. 52B



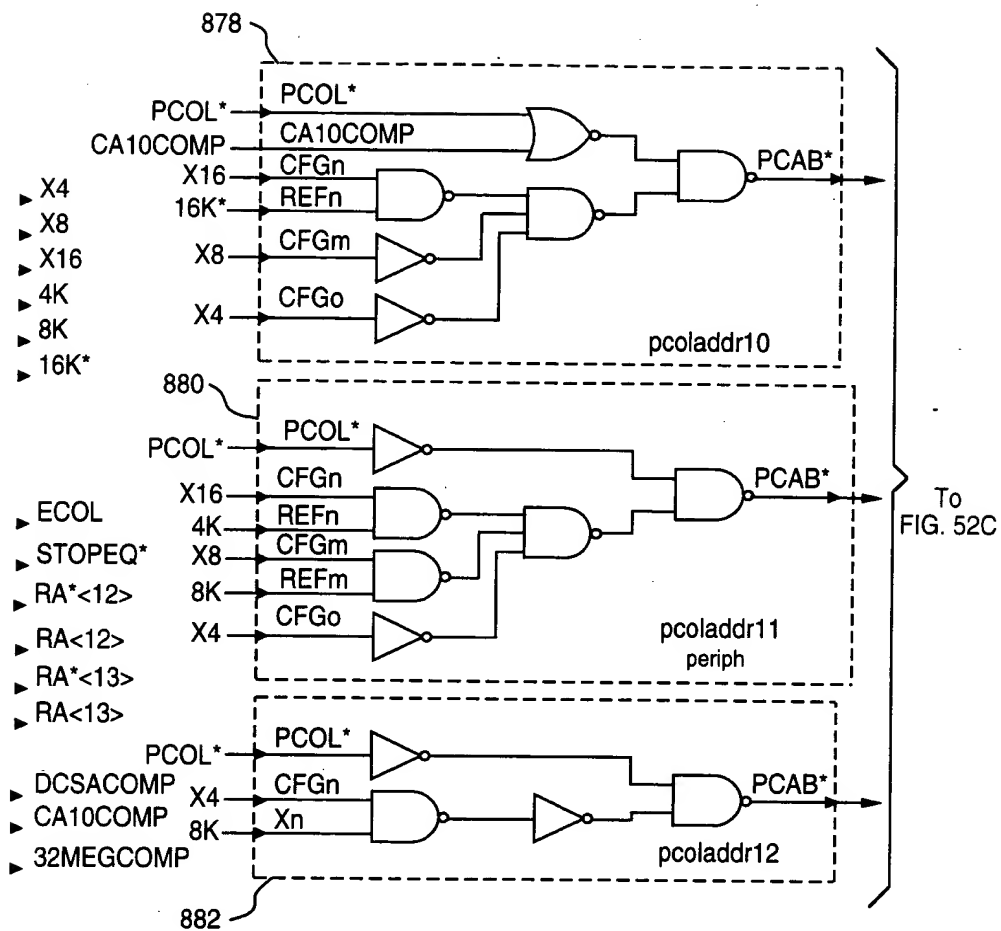


FIG. 52D

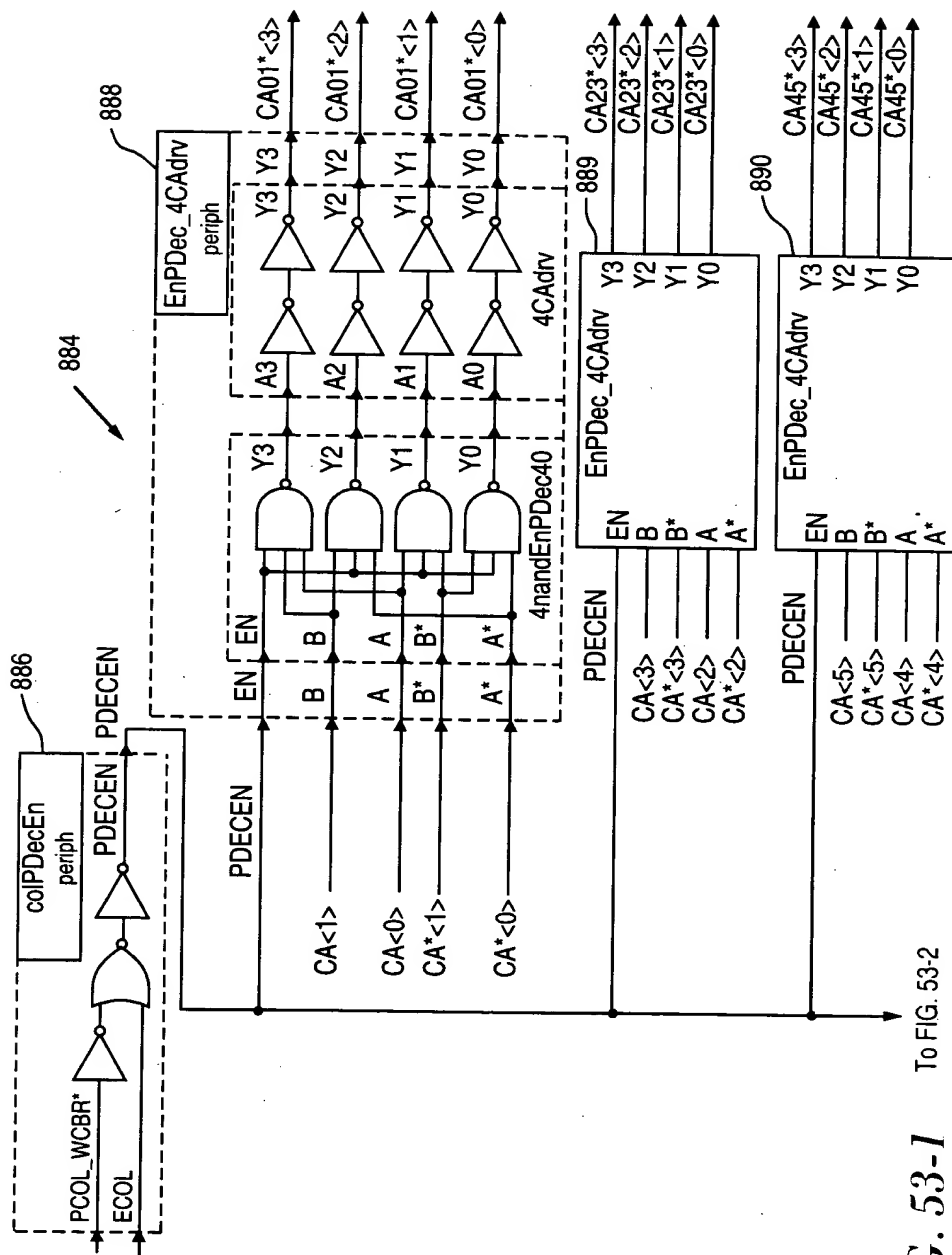


FIG. 53-1 To FIG. 53-2

To FIG. 53-1

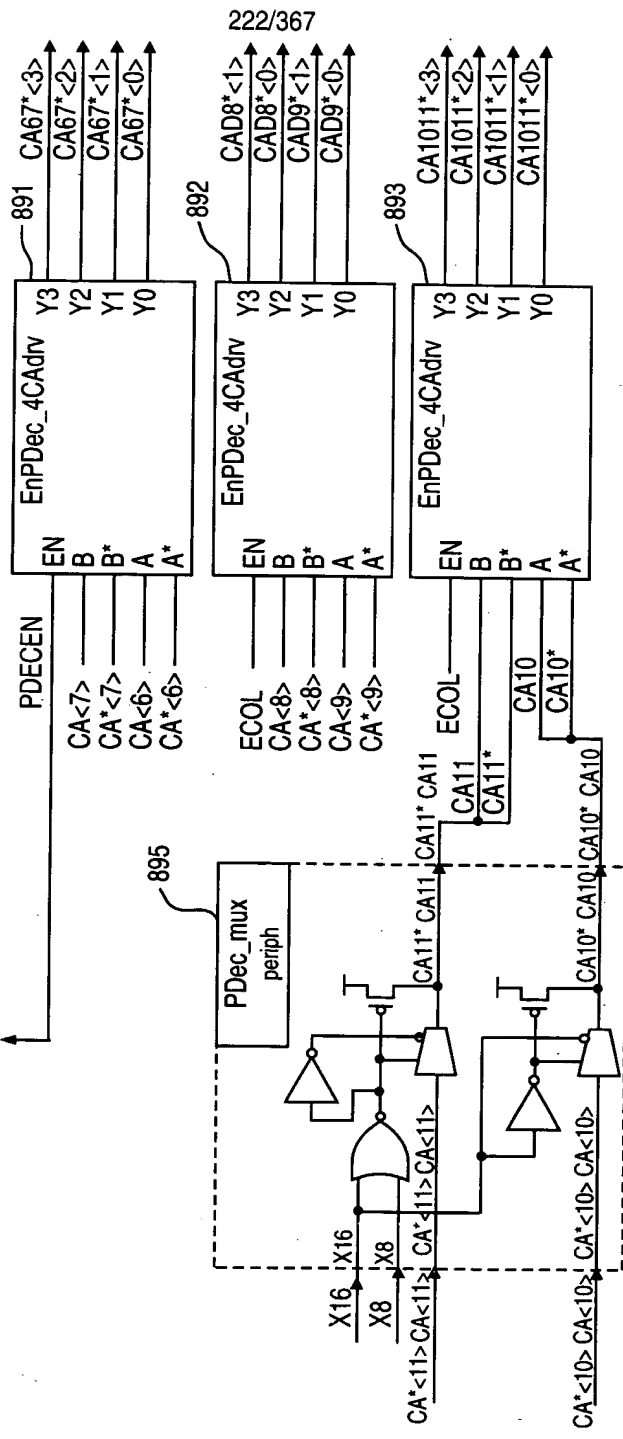
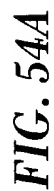


FIG. 53-2



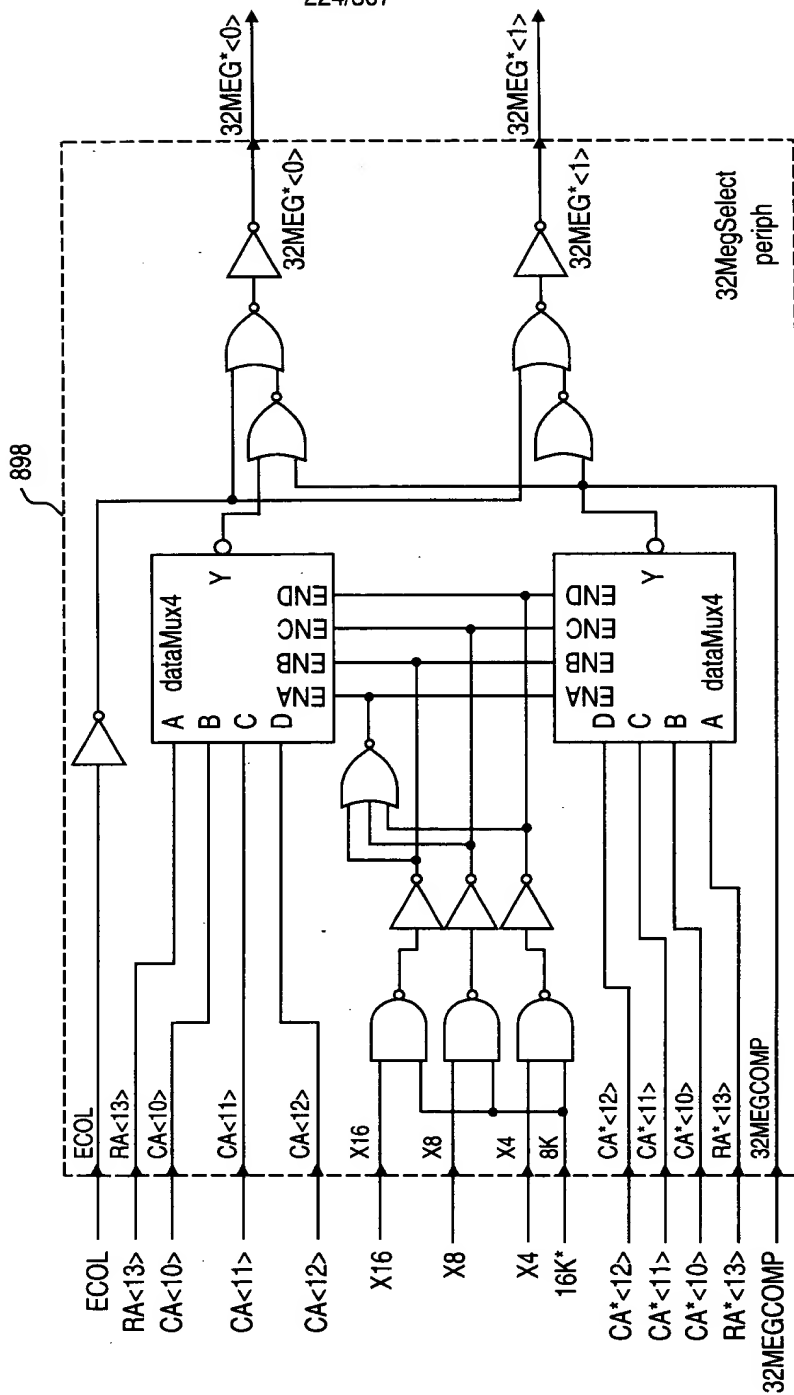


FIG. 54B

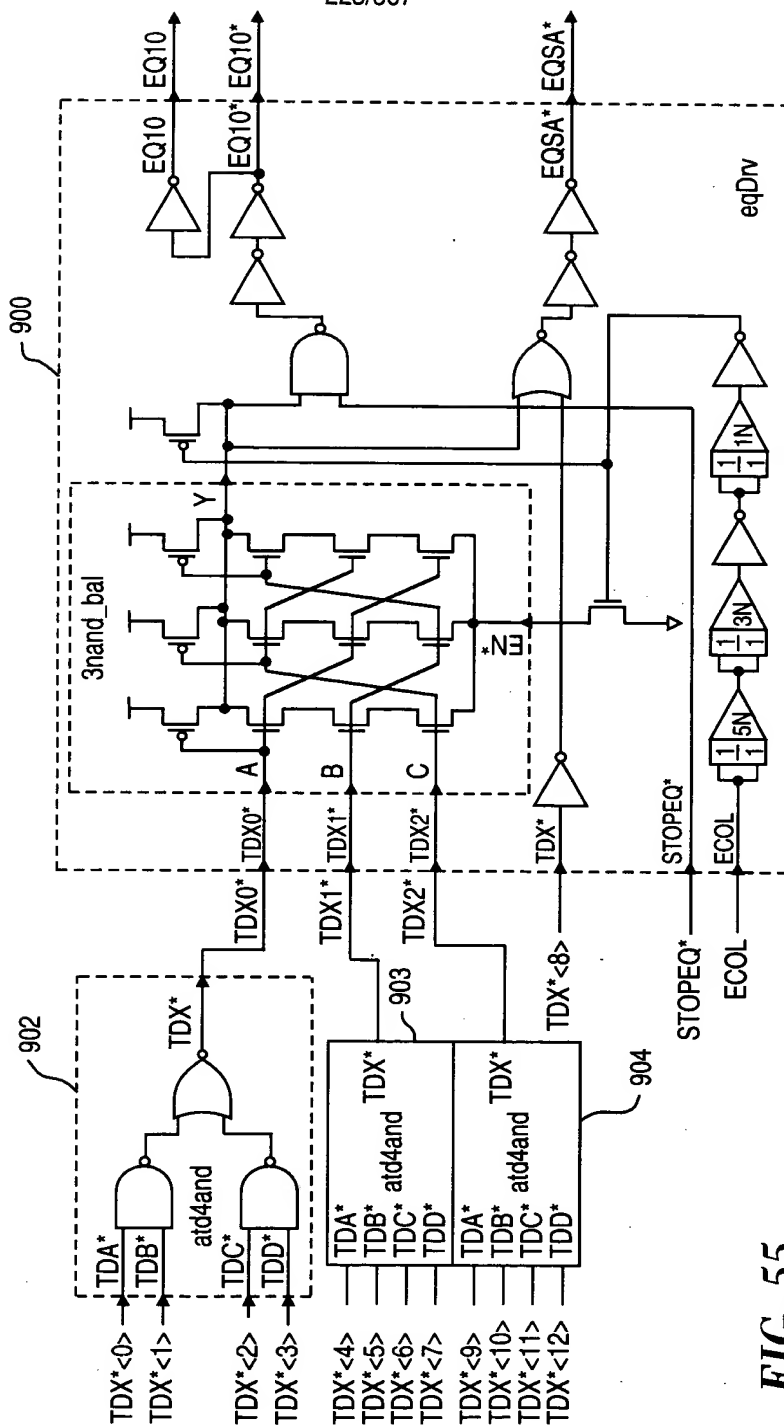


FIG. 55

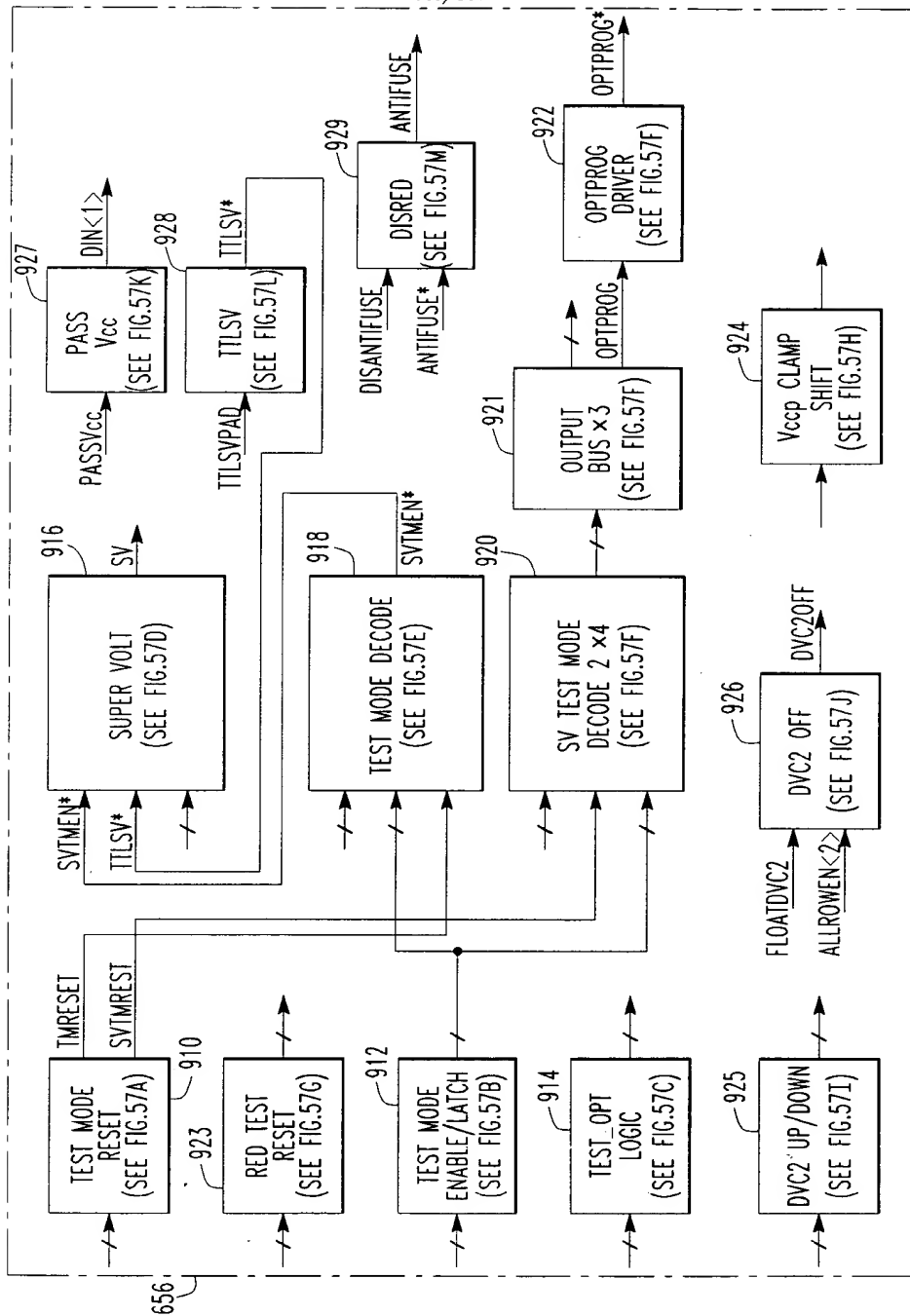


FIG. 56

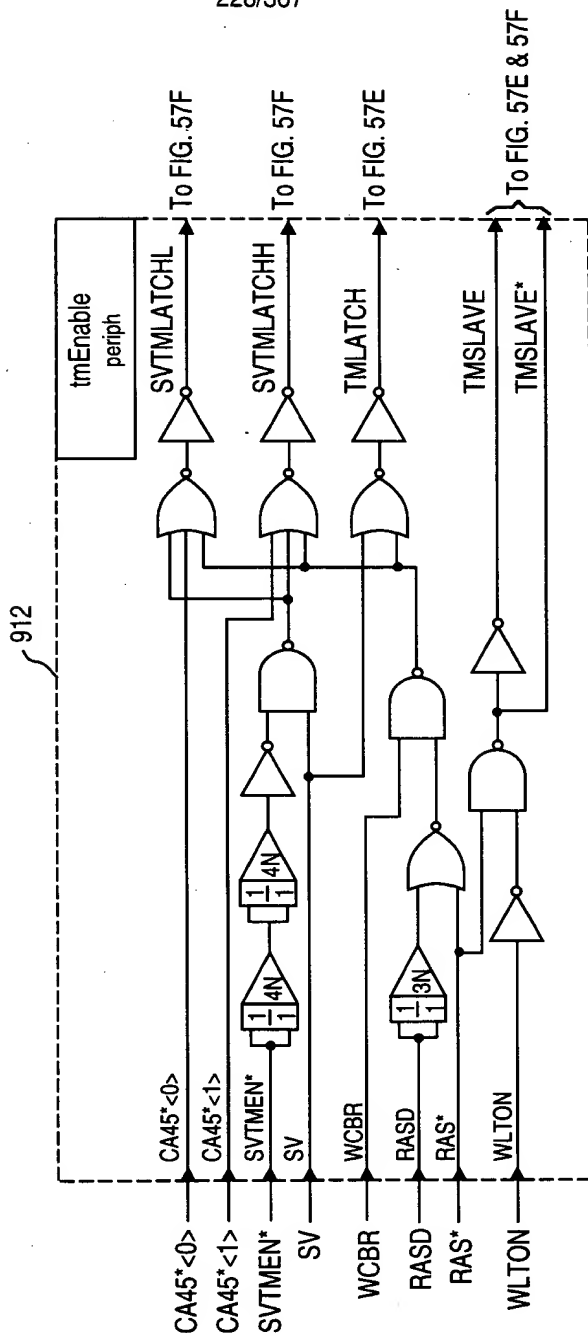


FIG. 57B

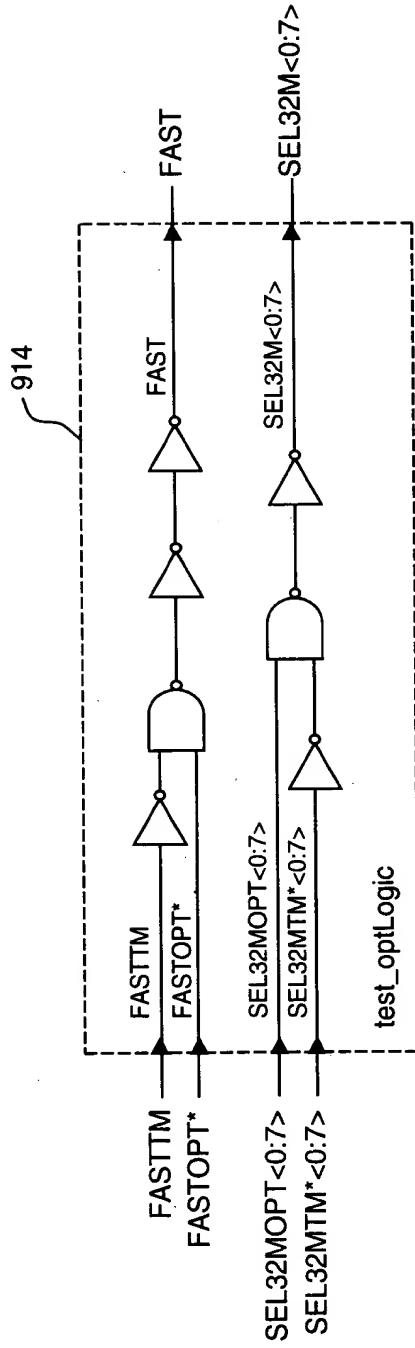


FIG. 57C

FIG. 57D

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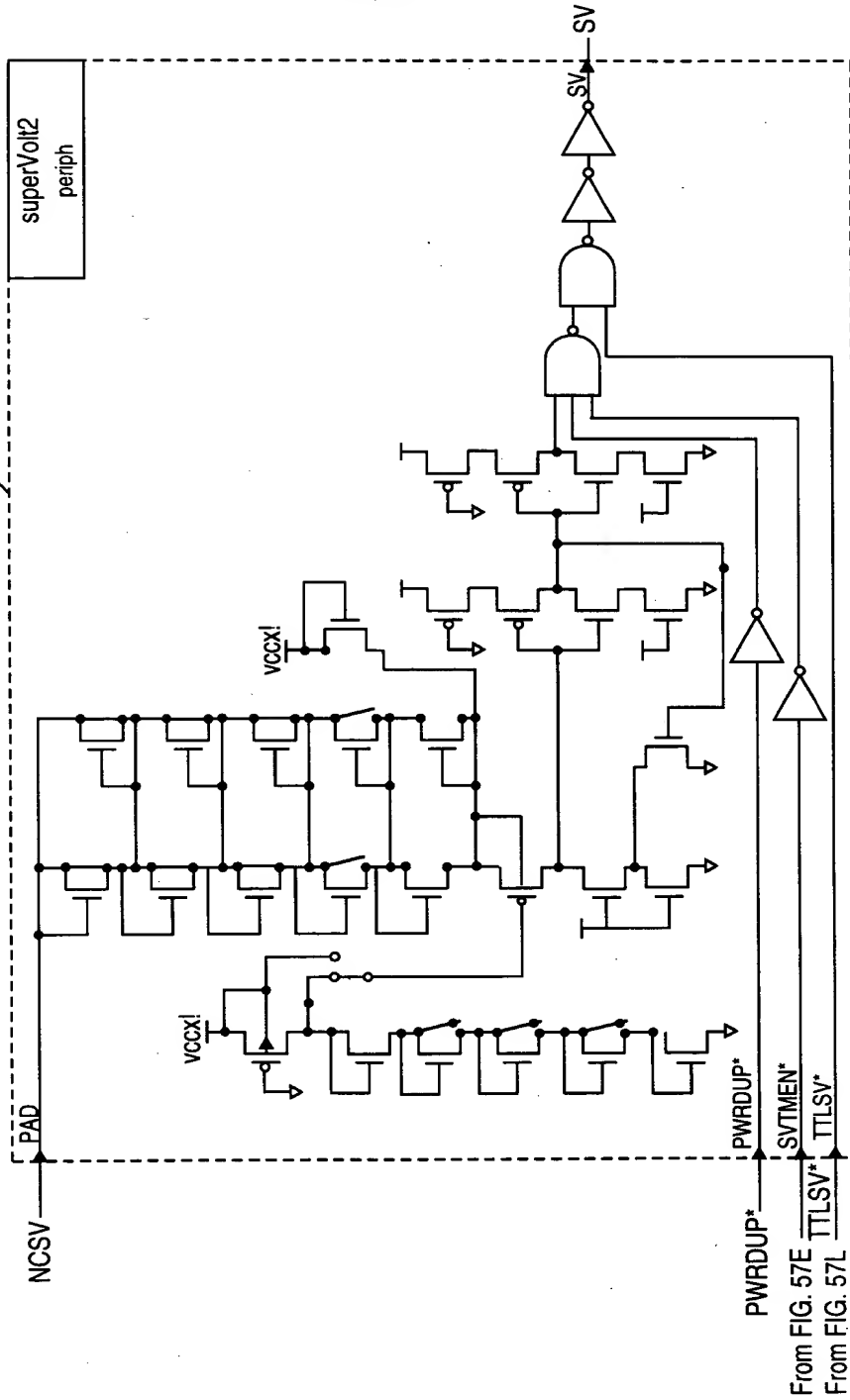


FIG. 57D

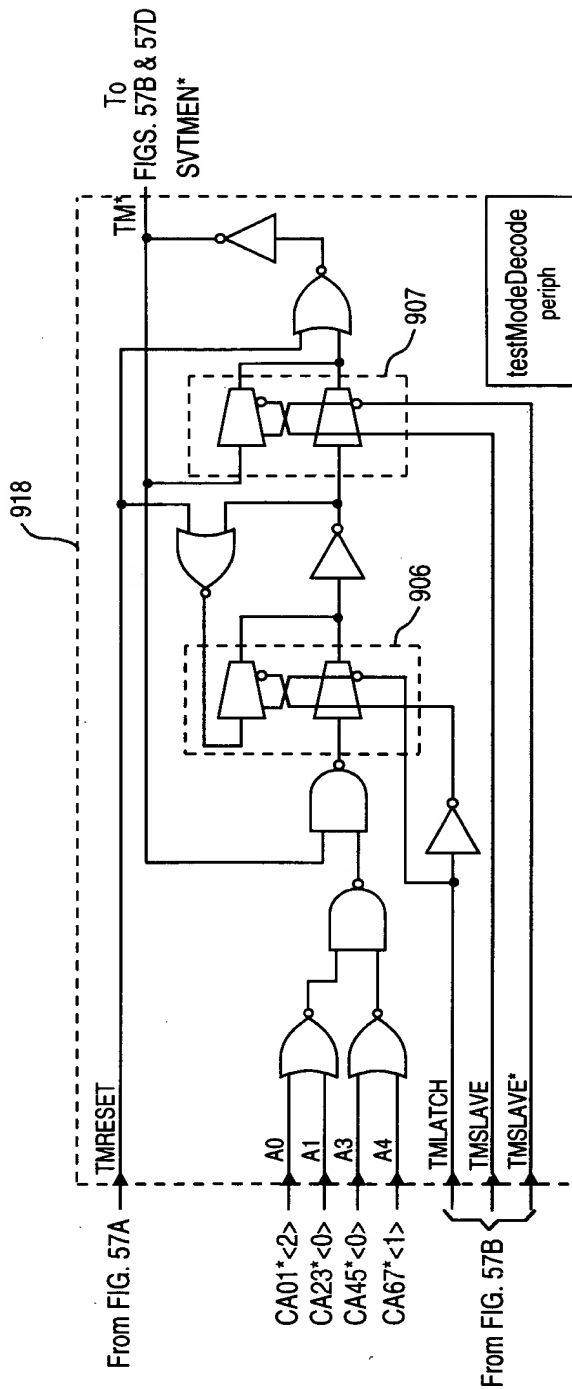


FIG. 57E

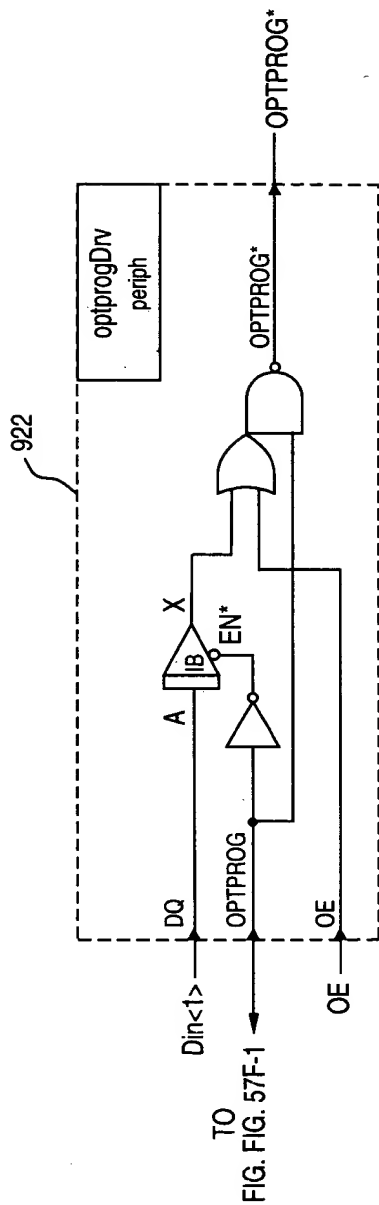


FIG. 57F-2

FIG. 57F-1

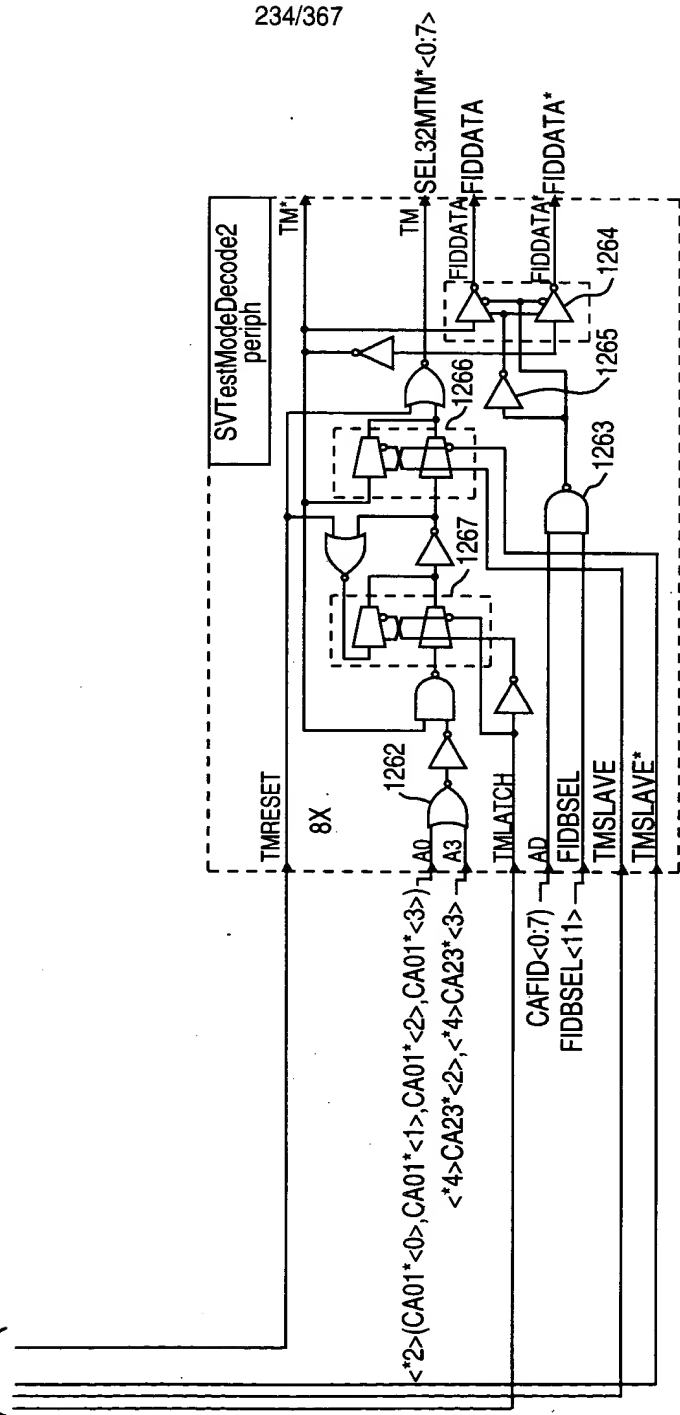


FIG. 57F-3

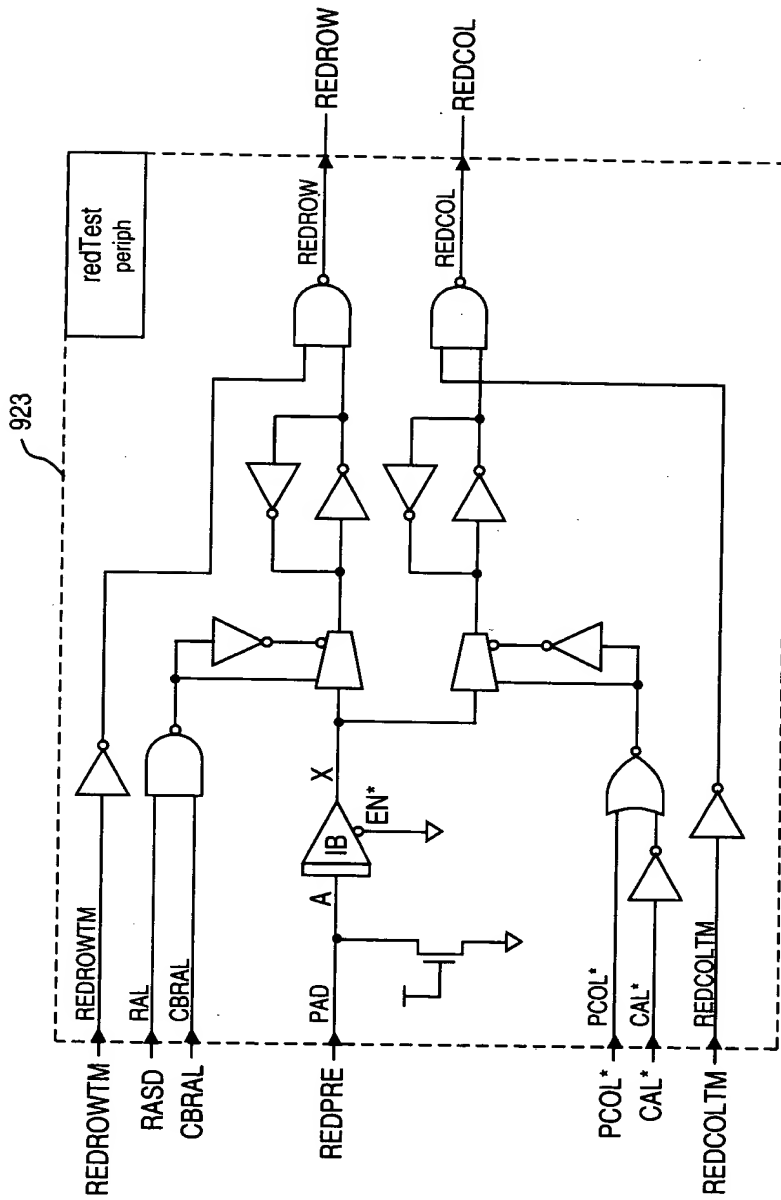
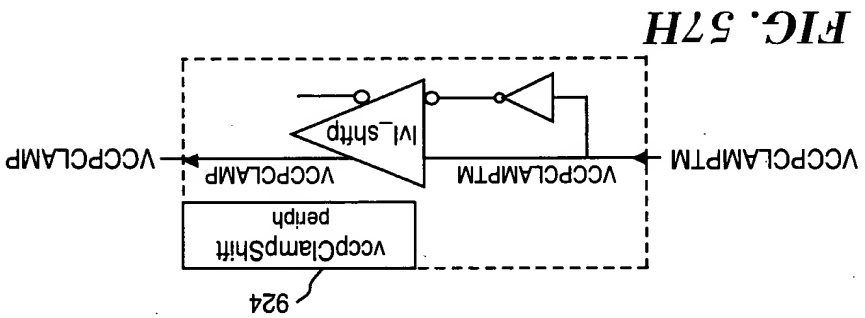
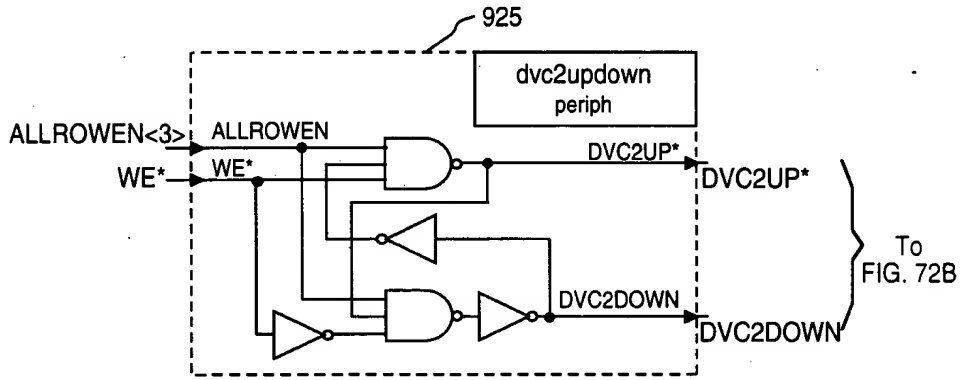
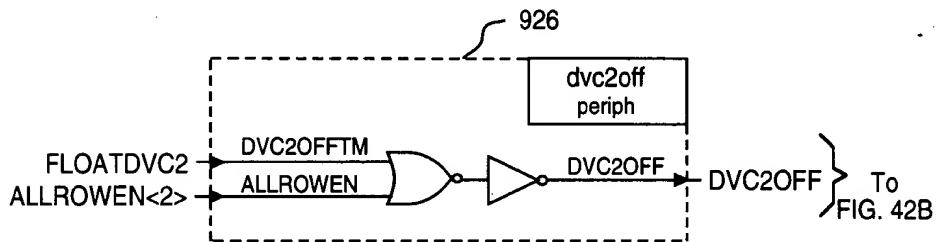
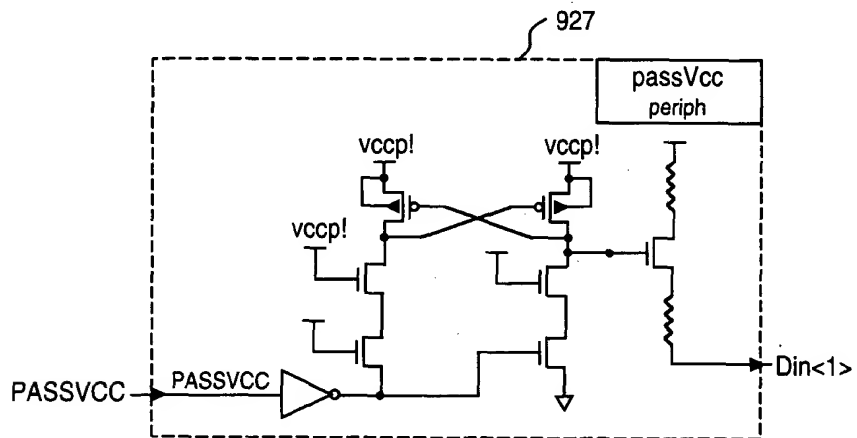


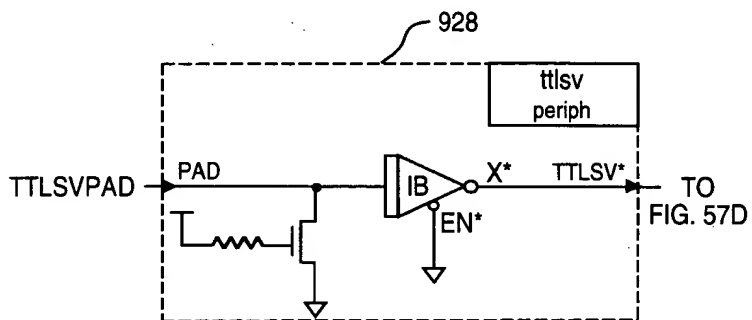
FIG. 57C



**FIG. 57I**

**FIG. 57J**

**FIG. 57K**

**FIG. 57L**

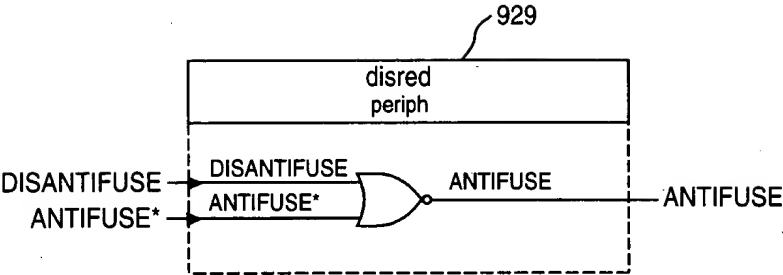


FIG. 57M

00001528.030804

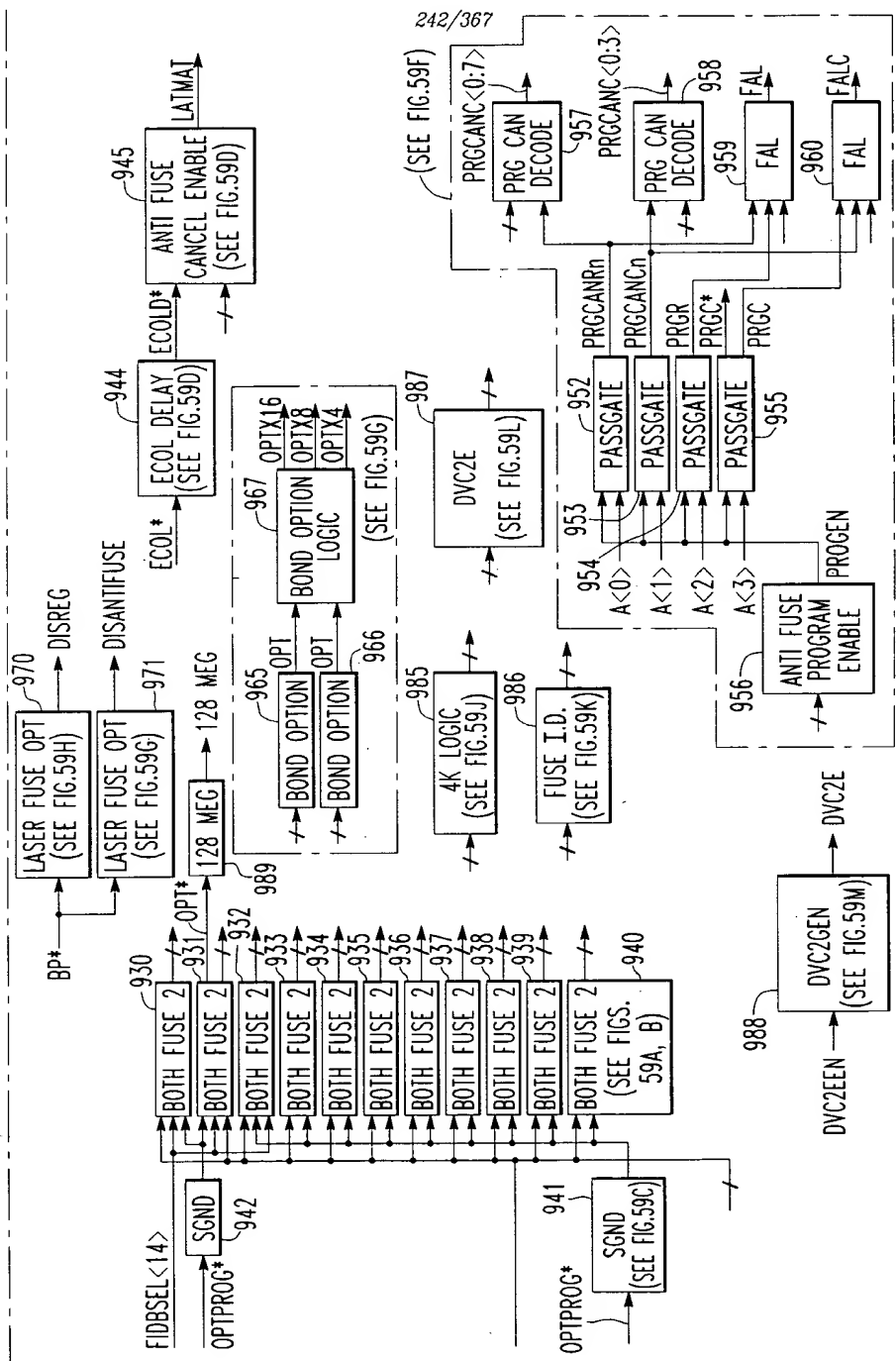


FIG. 58A

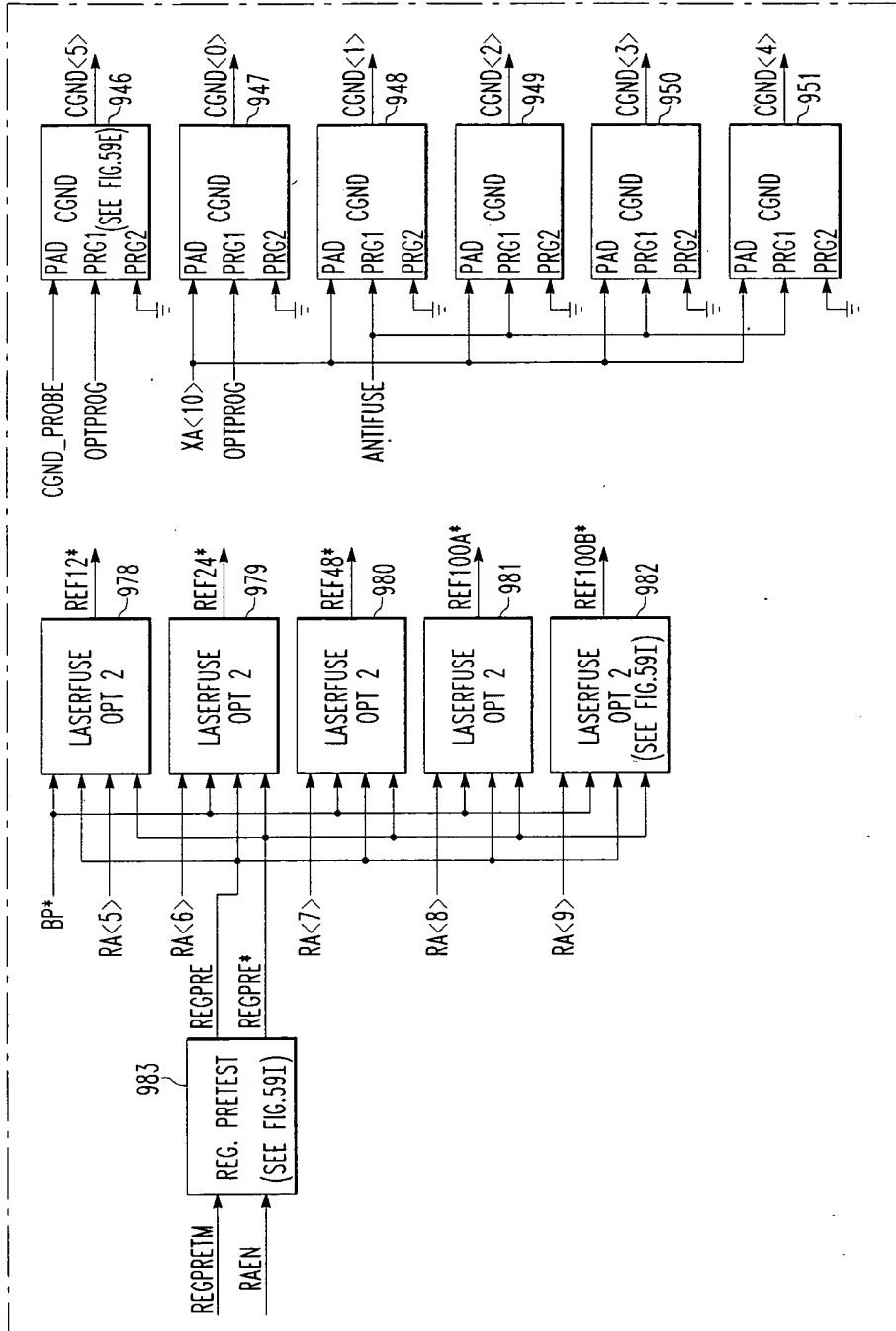
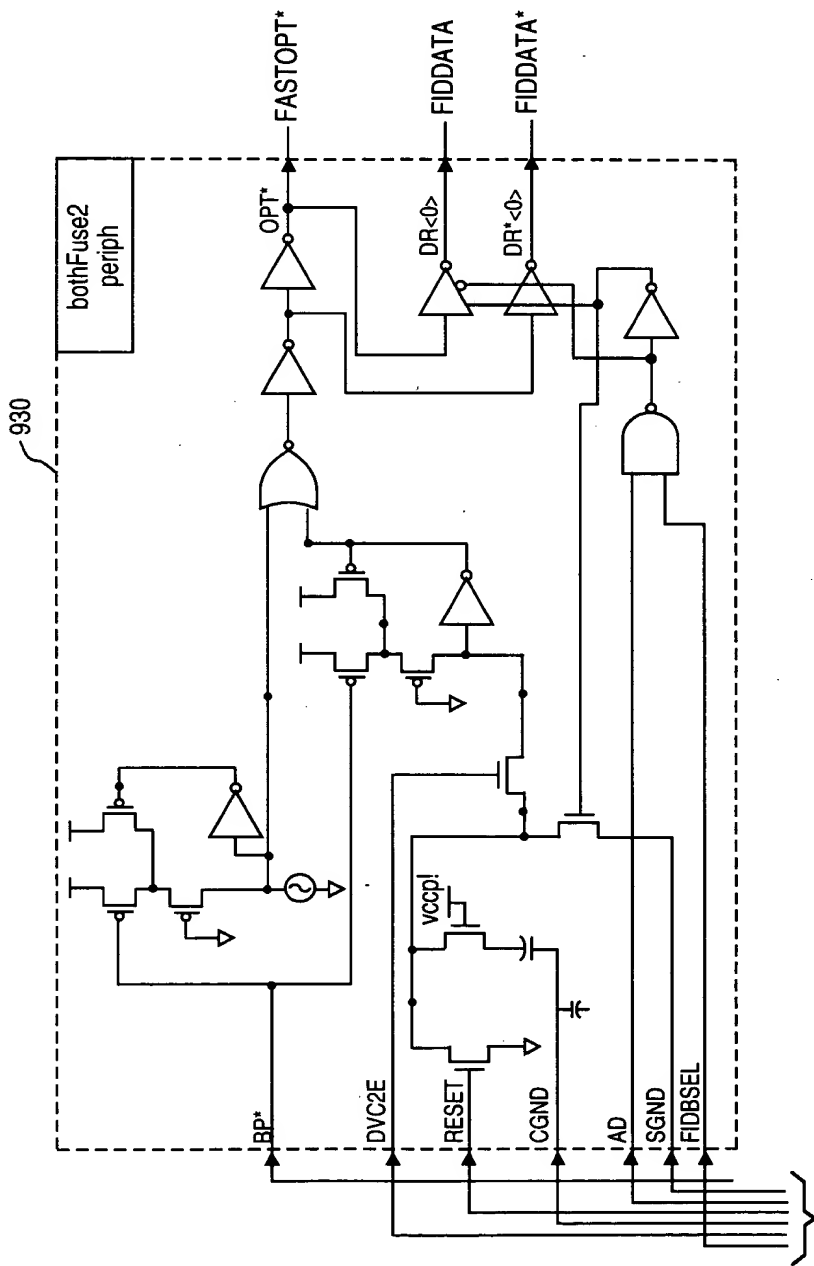


FIG. 59A



To
FIG. 59B

FIG. 59A

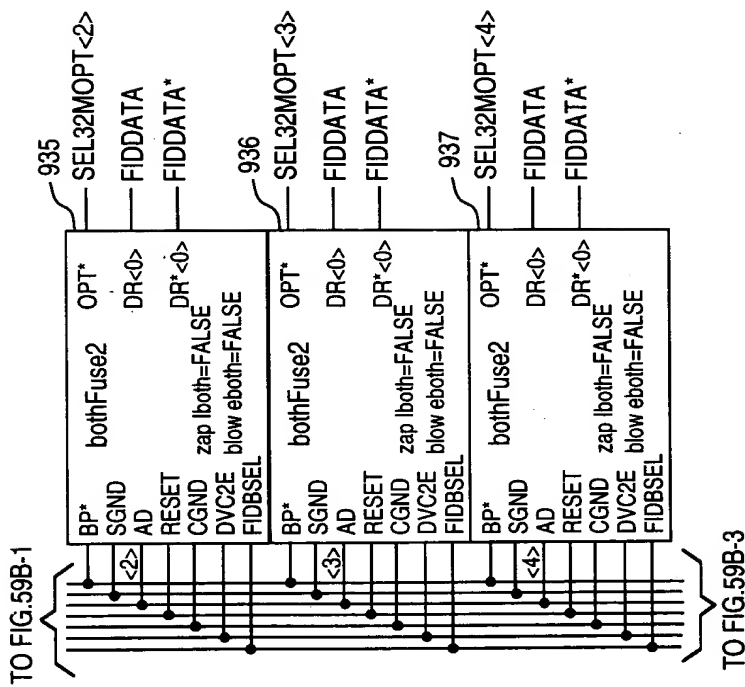


FIG. 59B-2

FIG. 59B-3

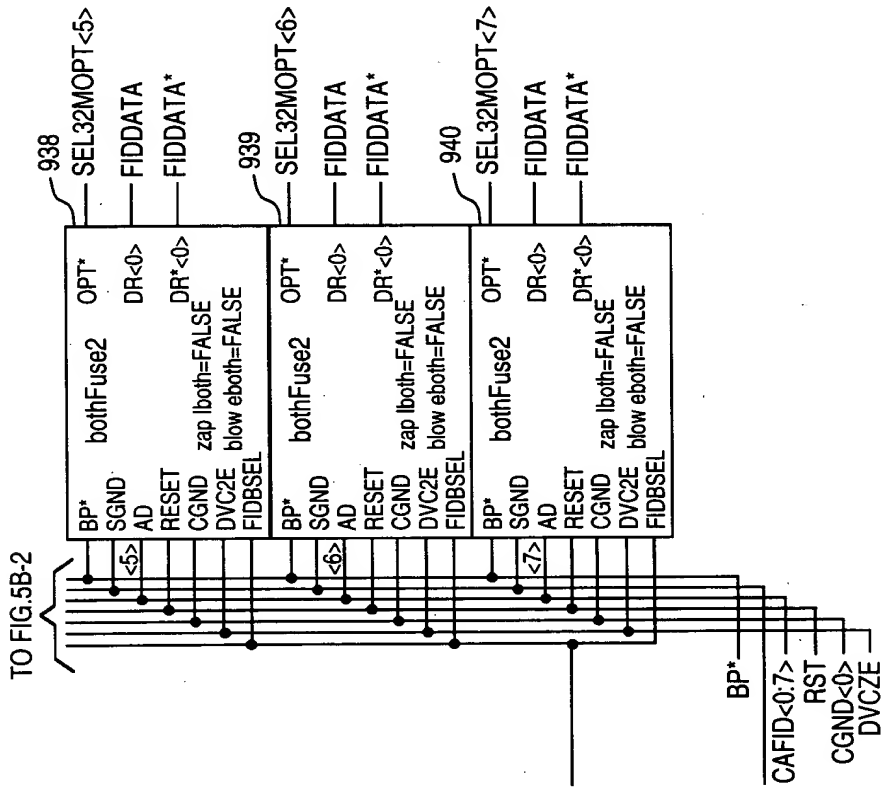


FIG. 59B-3

FIG. 59C

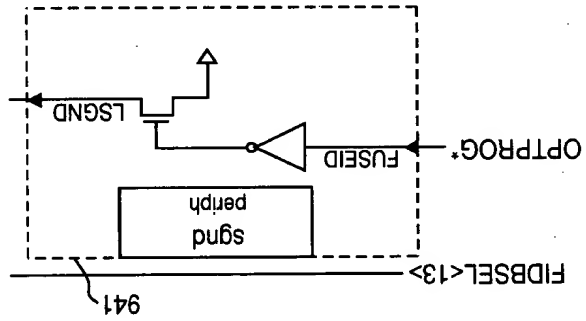


FIG. 59D

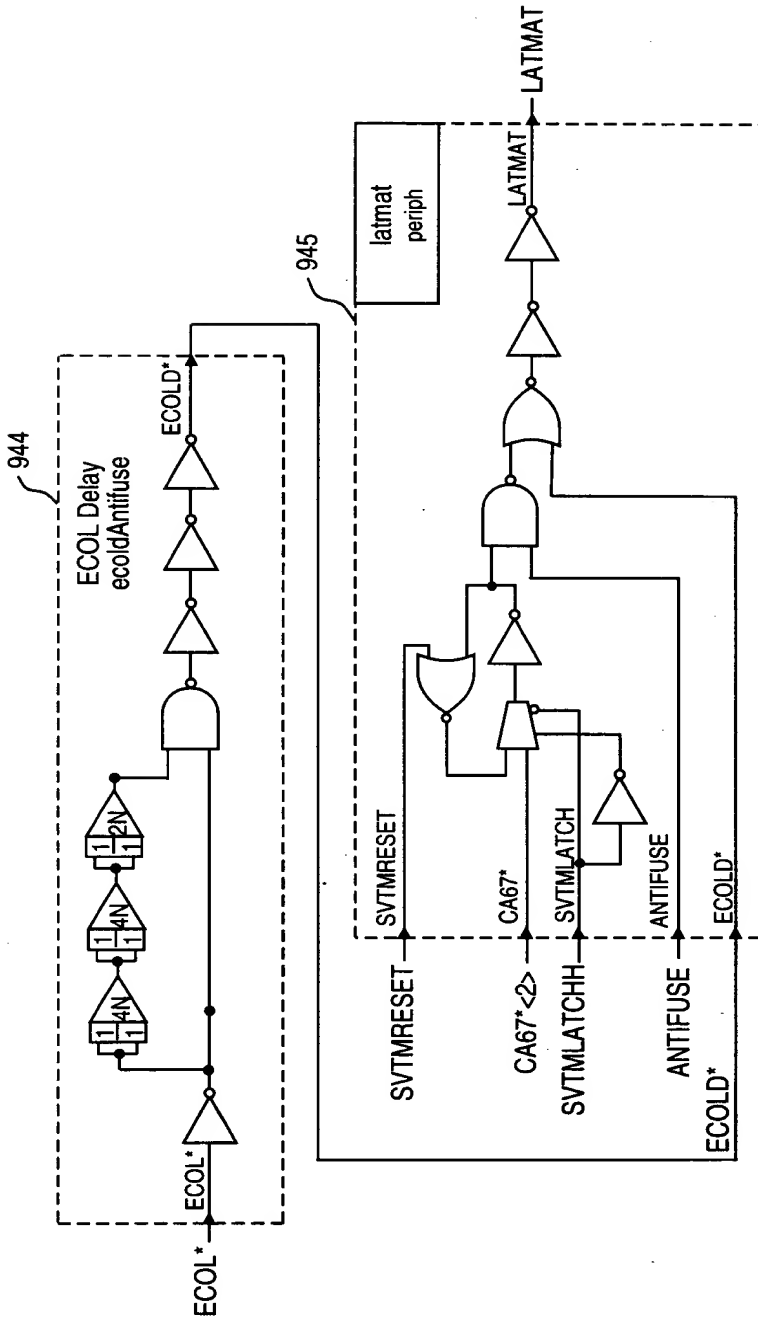


FIG. 59D

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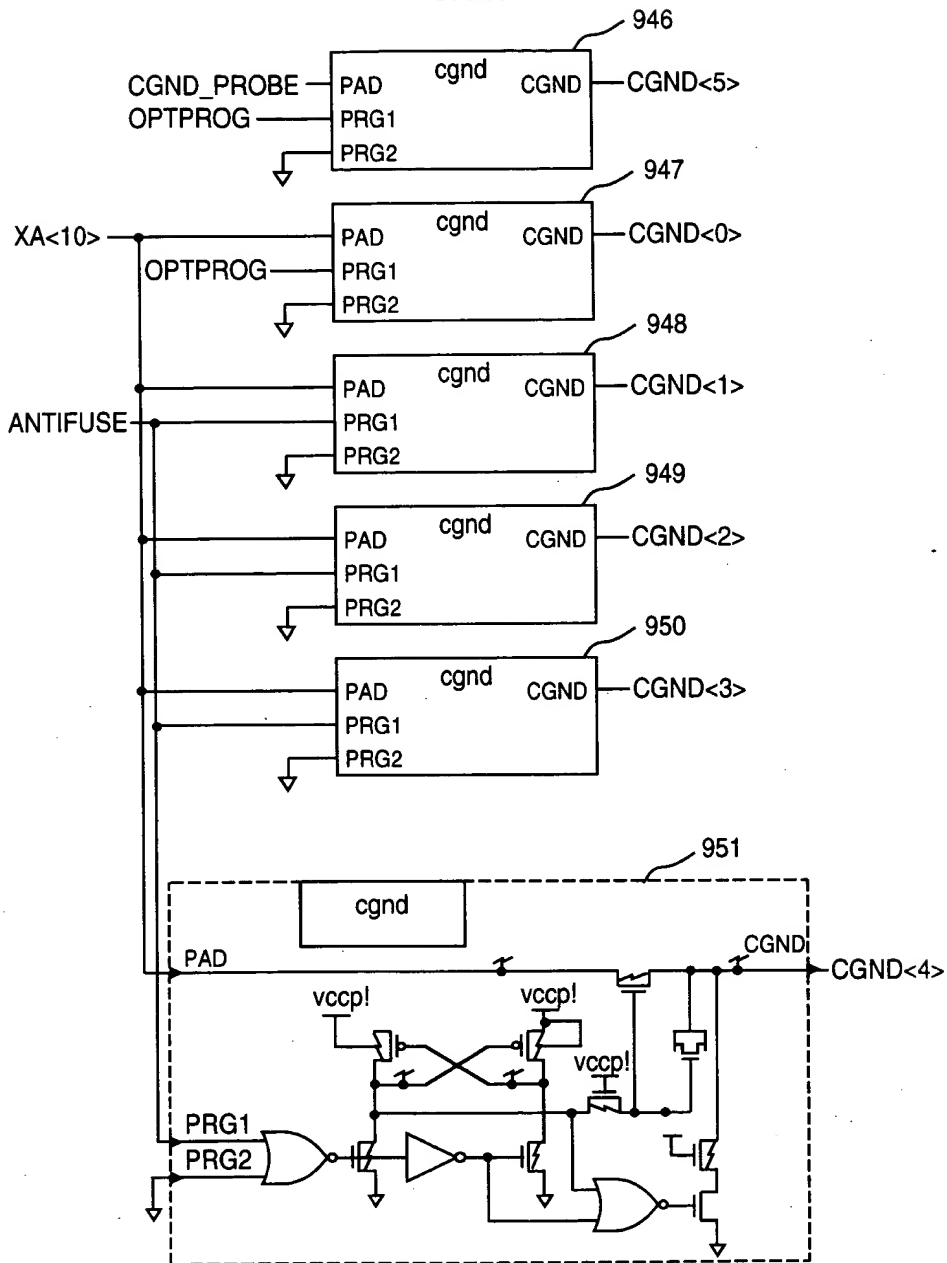


FIG. 59E

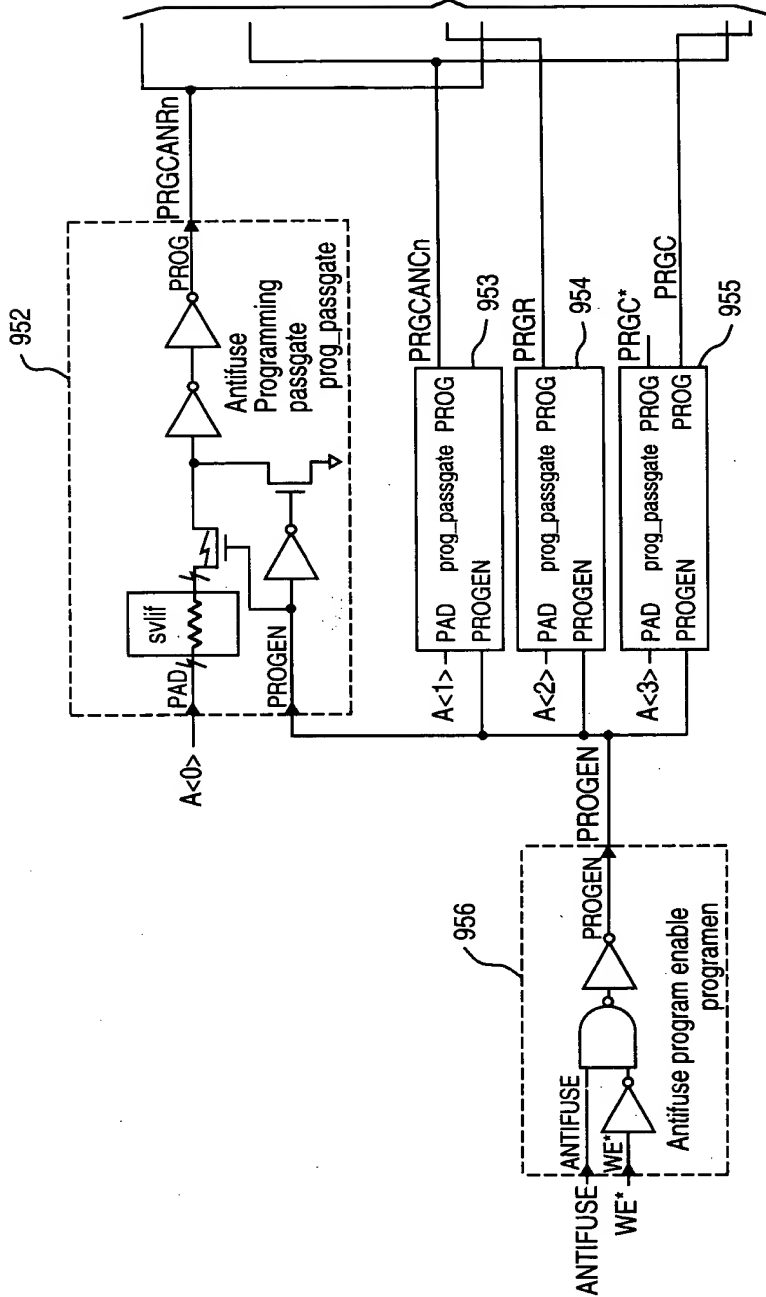


FIG. 59F-1

FIG. 59F-2

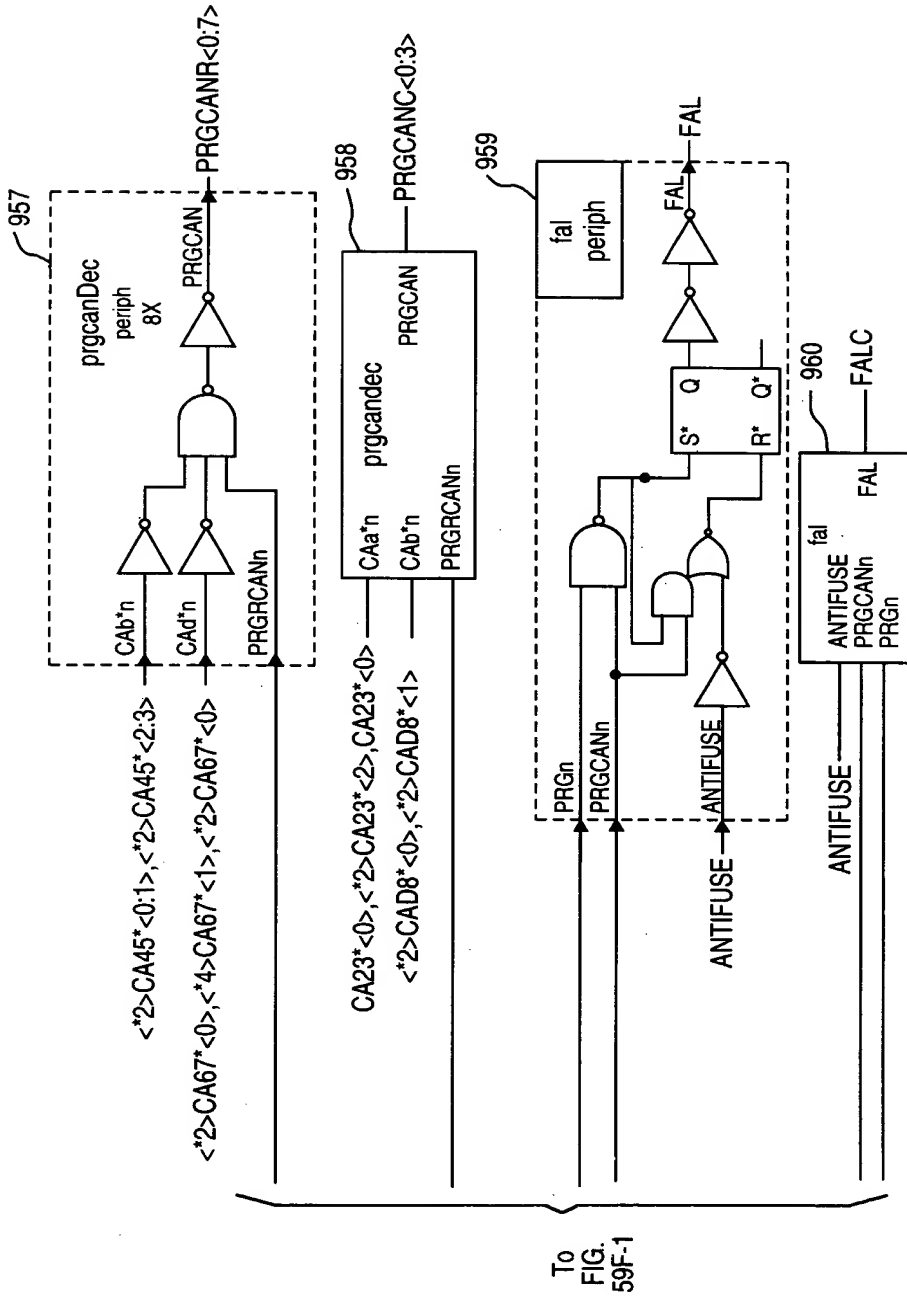


FIG. 59F-2

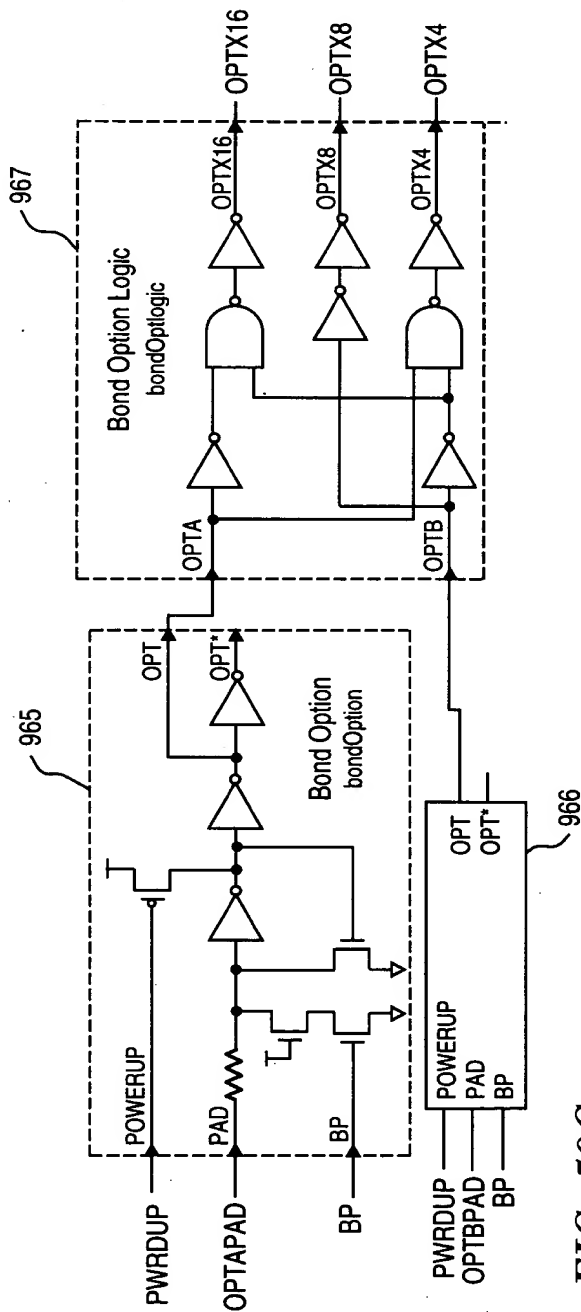
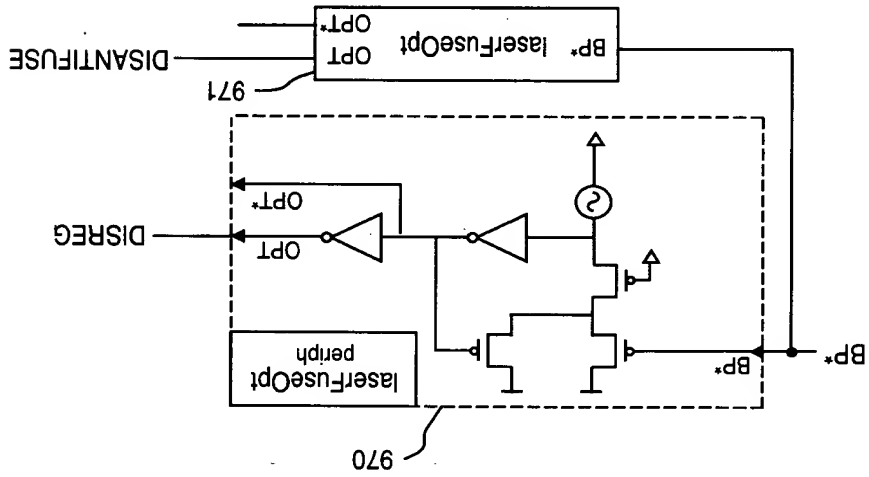


FIG. 59C

FIG. 59H



00001628 030004

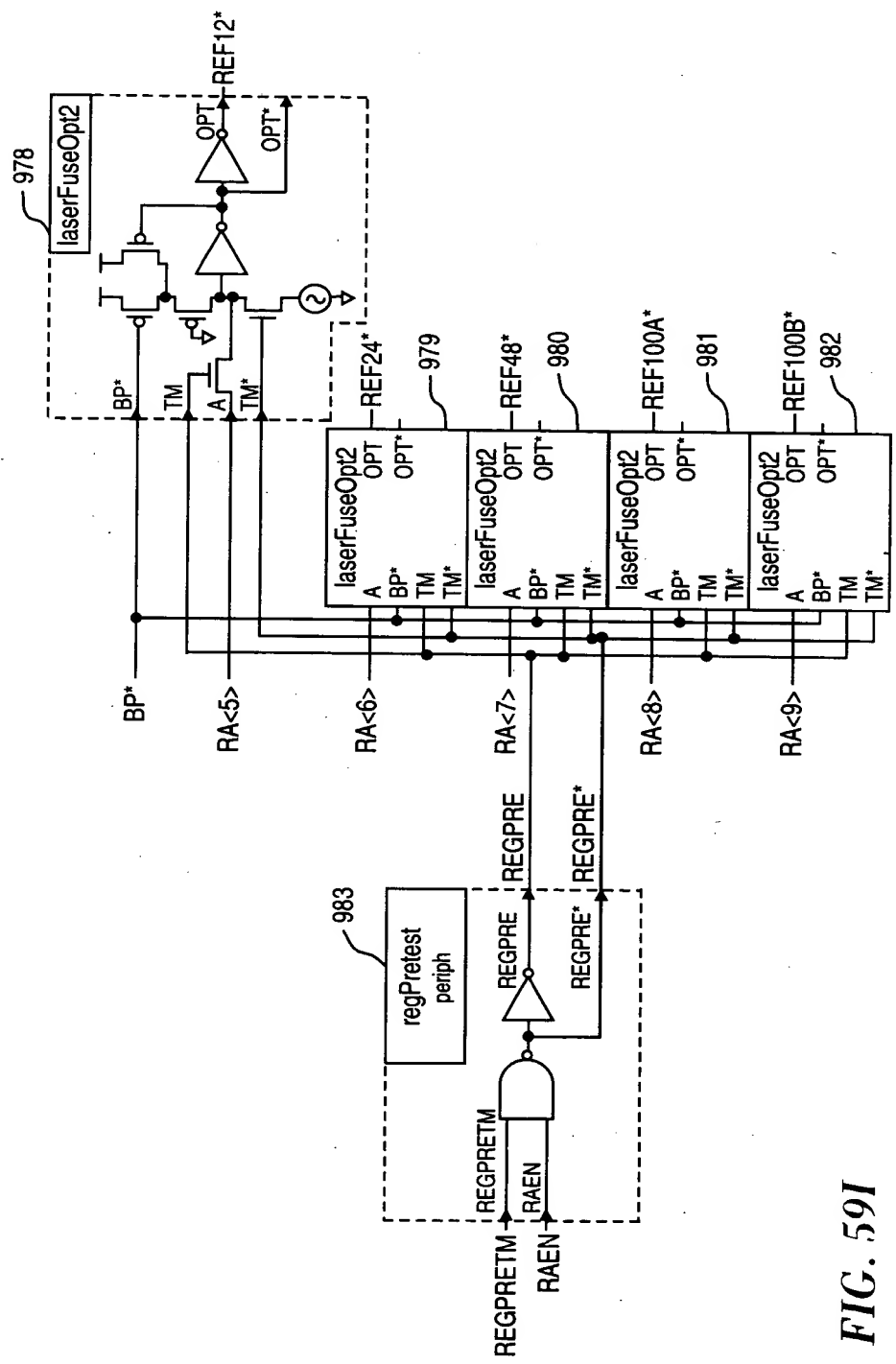
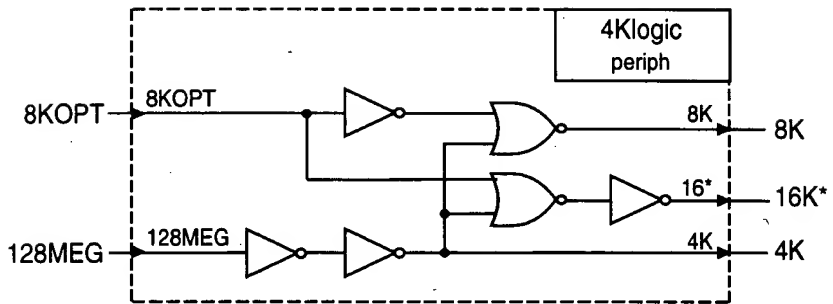


FIG. 591

**FIG. 59J**

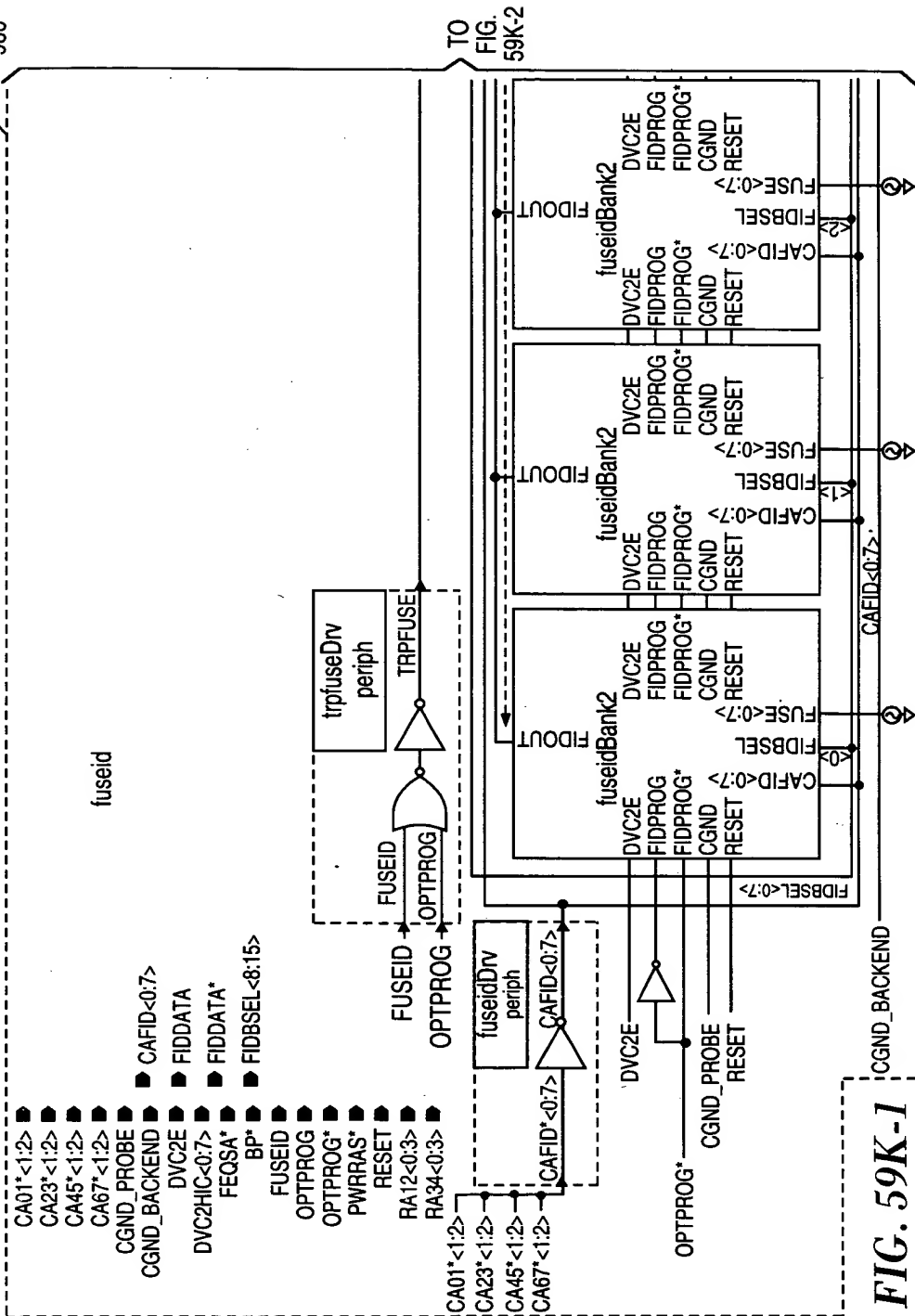
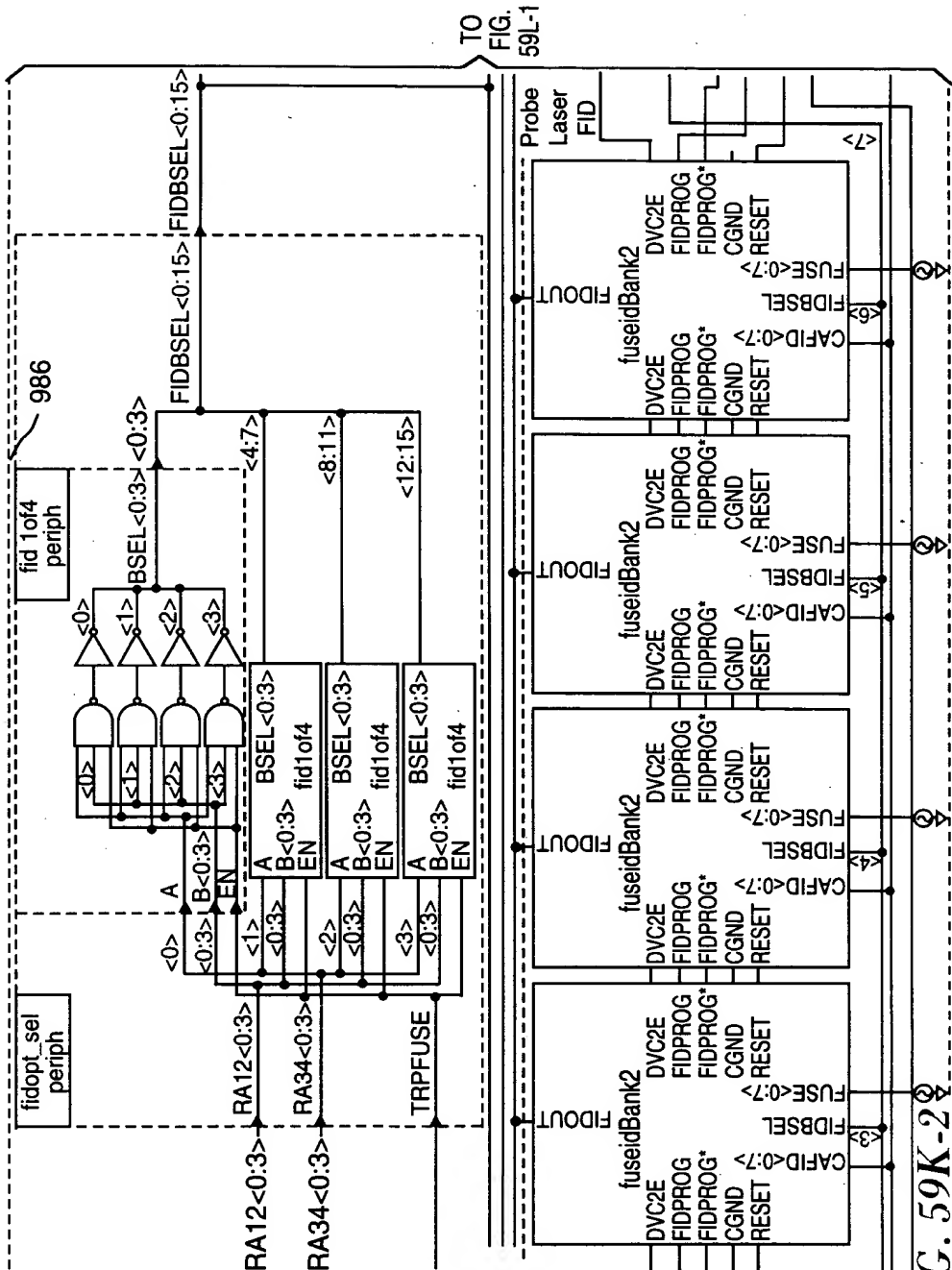


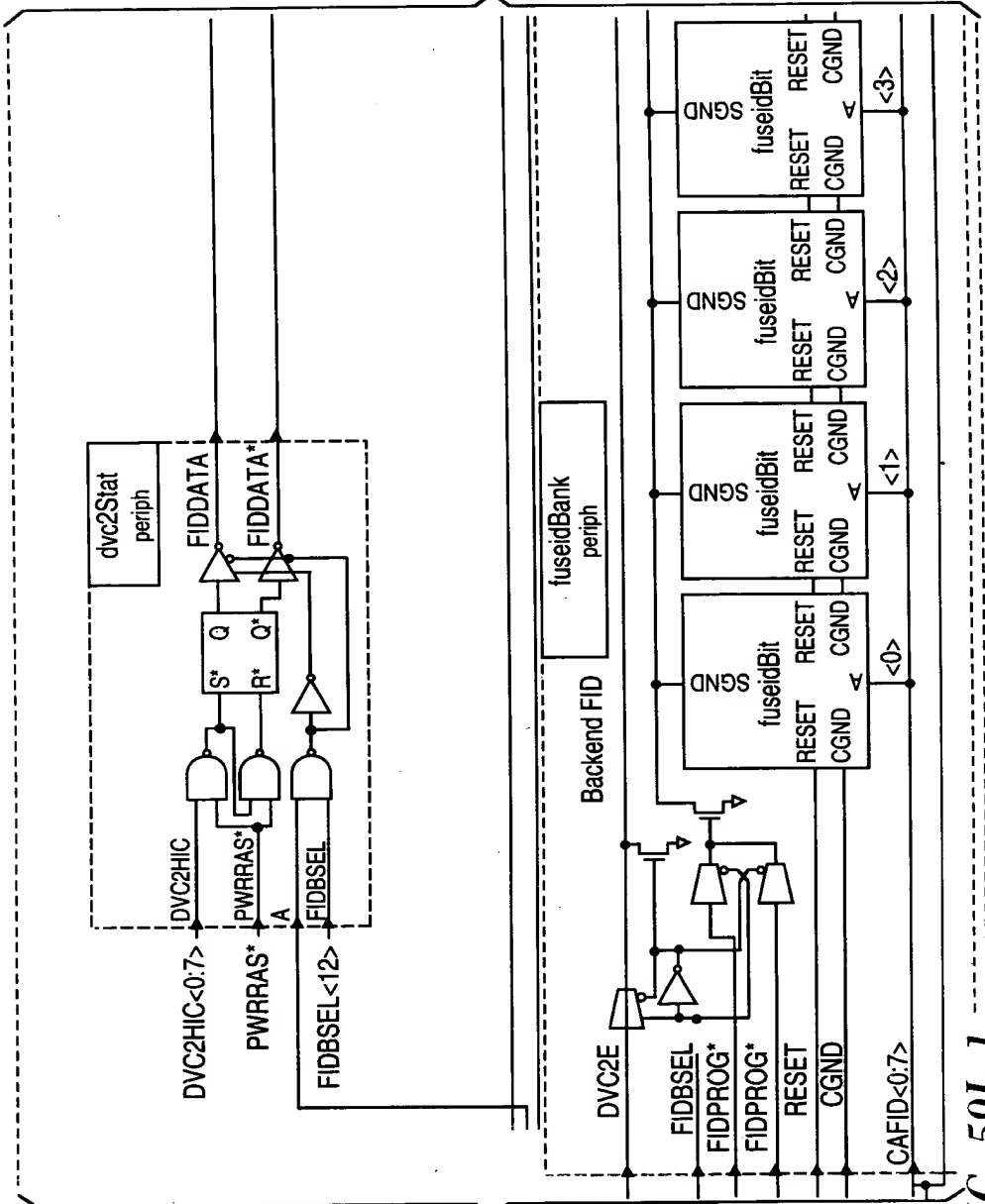
FIG. 59K-1



TO
FIG.
59L-1

TO
FIG.
59L-2

FIG. 59L-1



TO
FIG.
59K-1

FIG. 59L-1

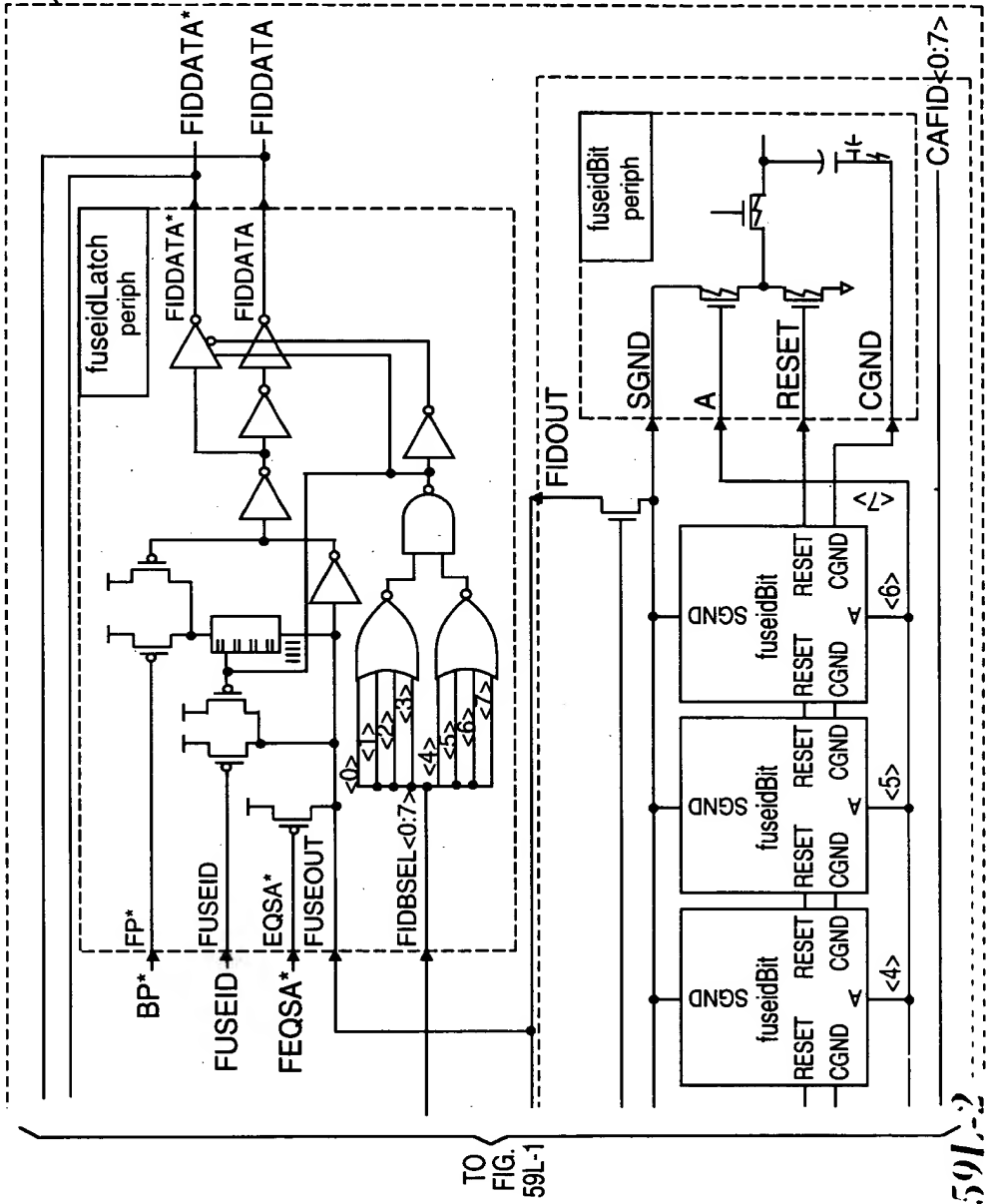
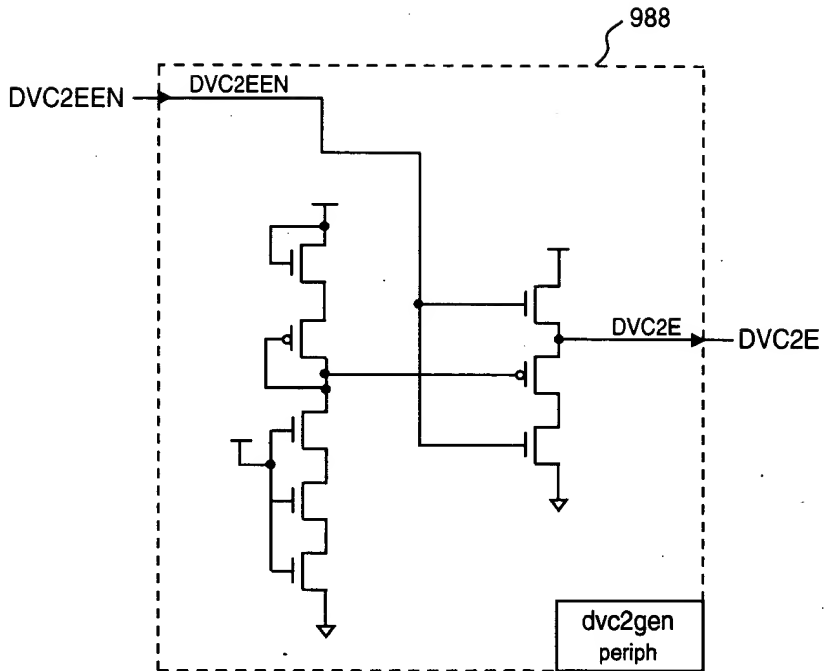


FIG. 59L-2

**FIG. 59N**

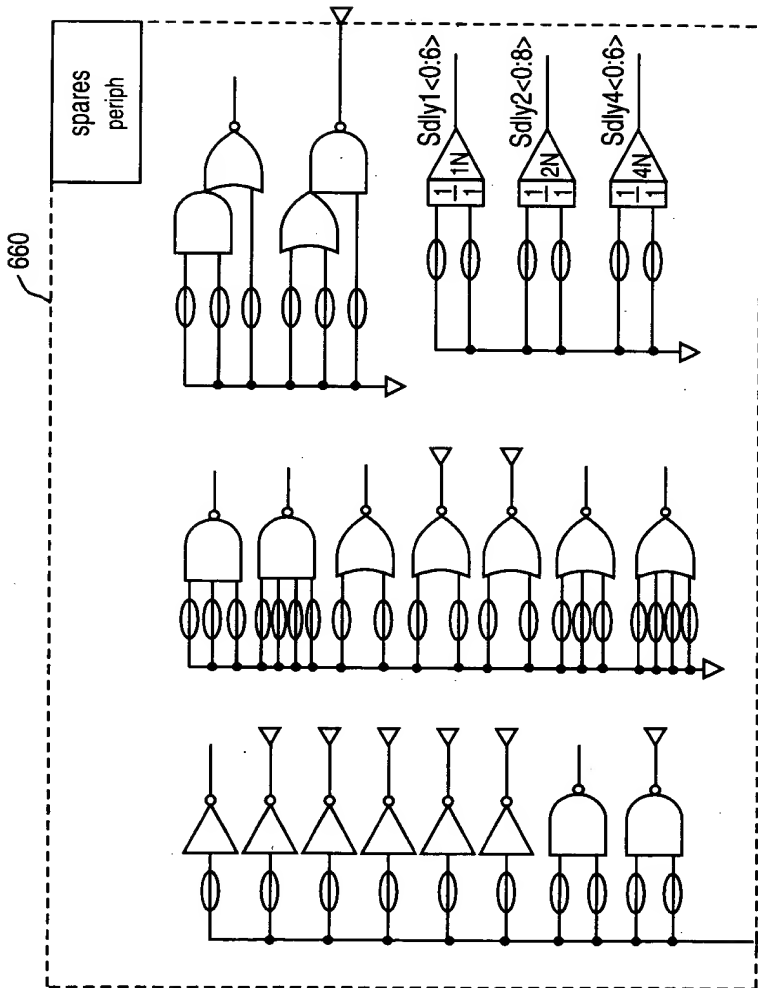


FIG. 590

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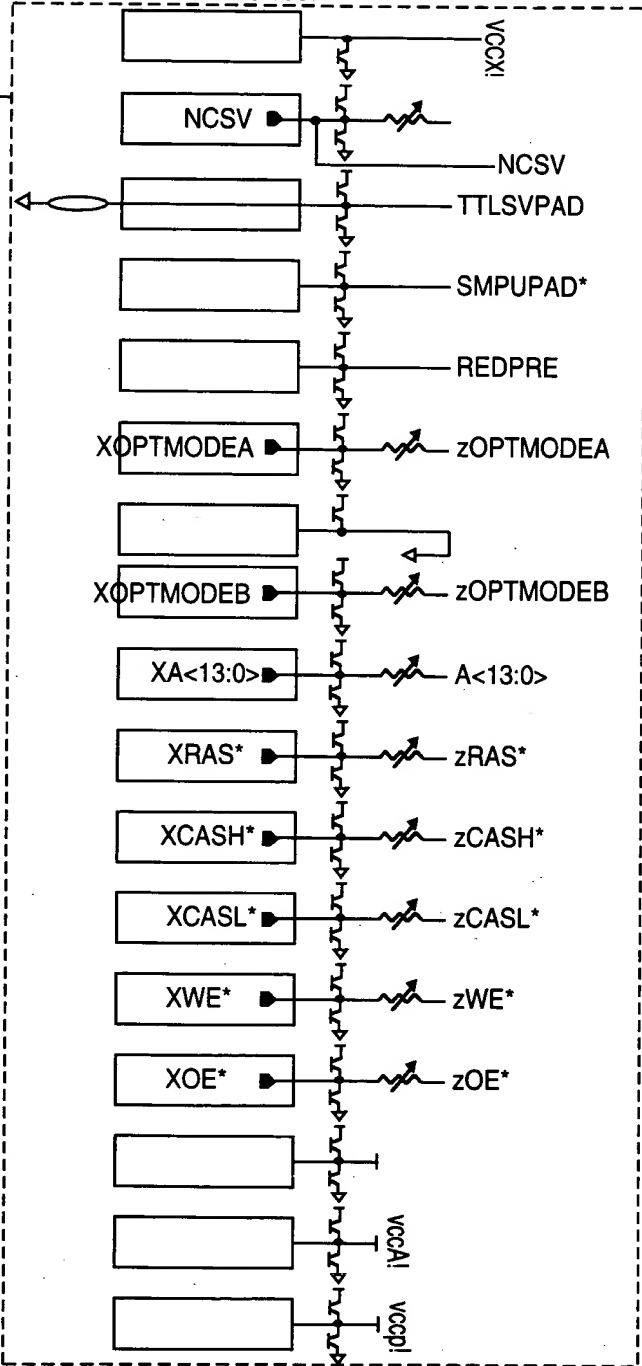


FIG. 59P

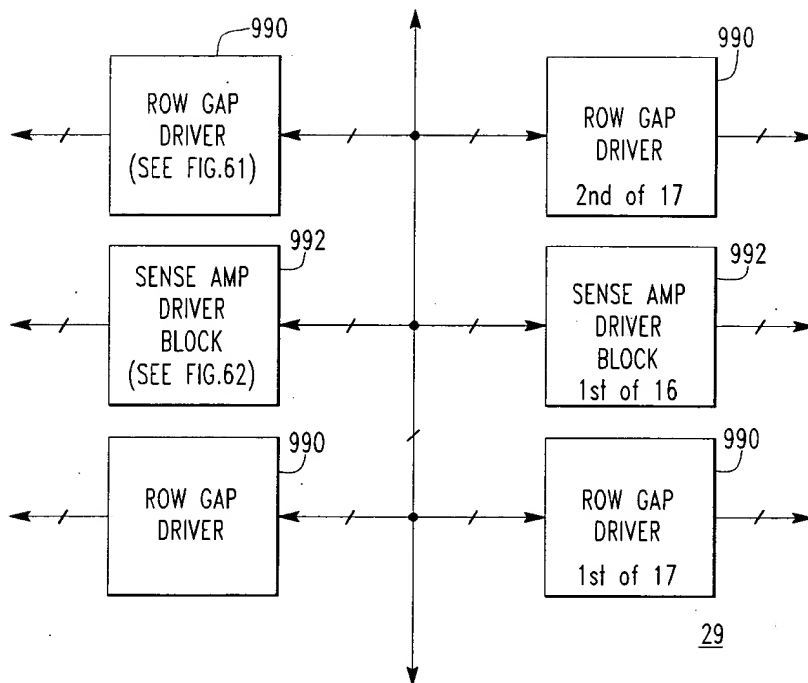


FIG. 60

FIG. 61

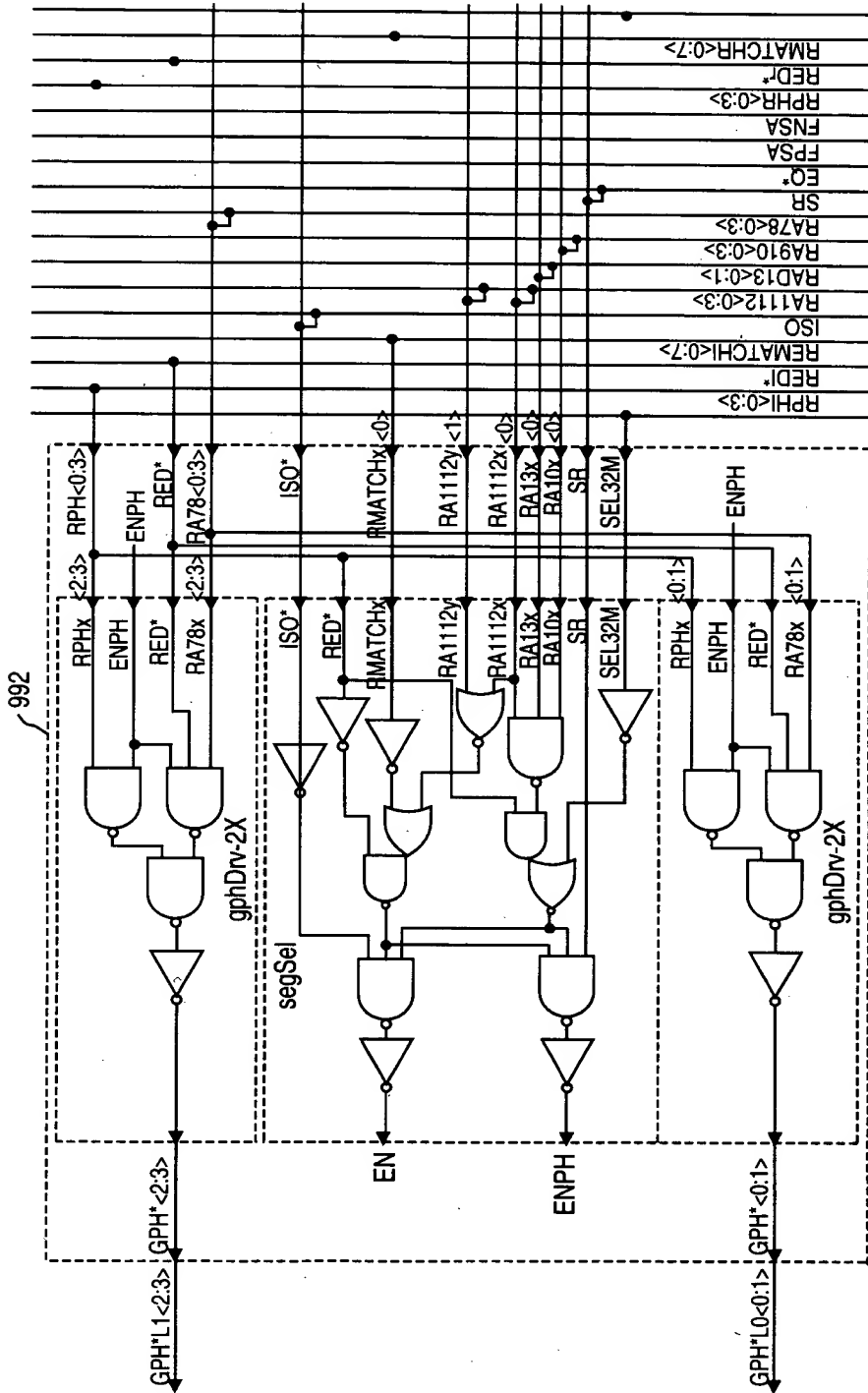


FIG. 61

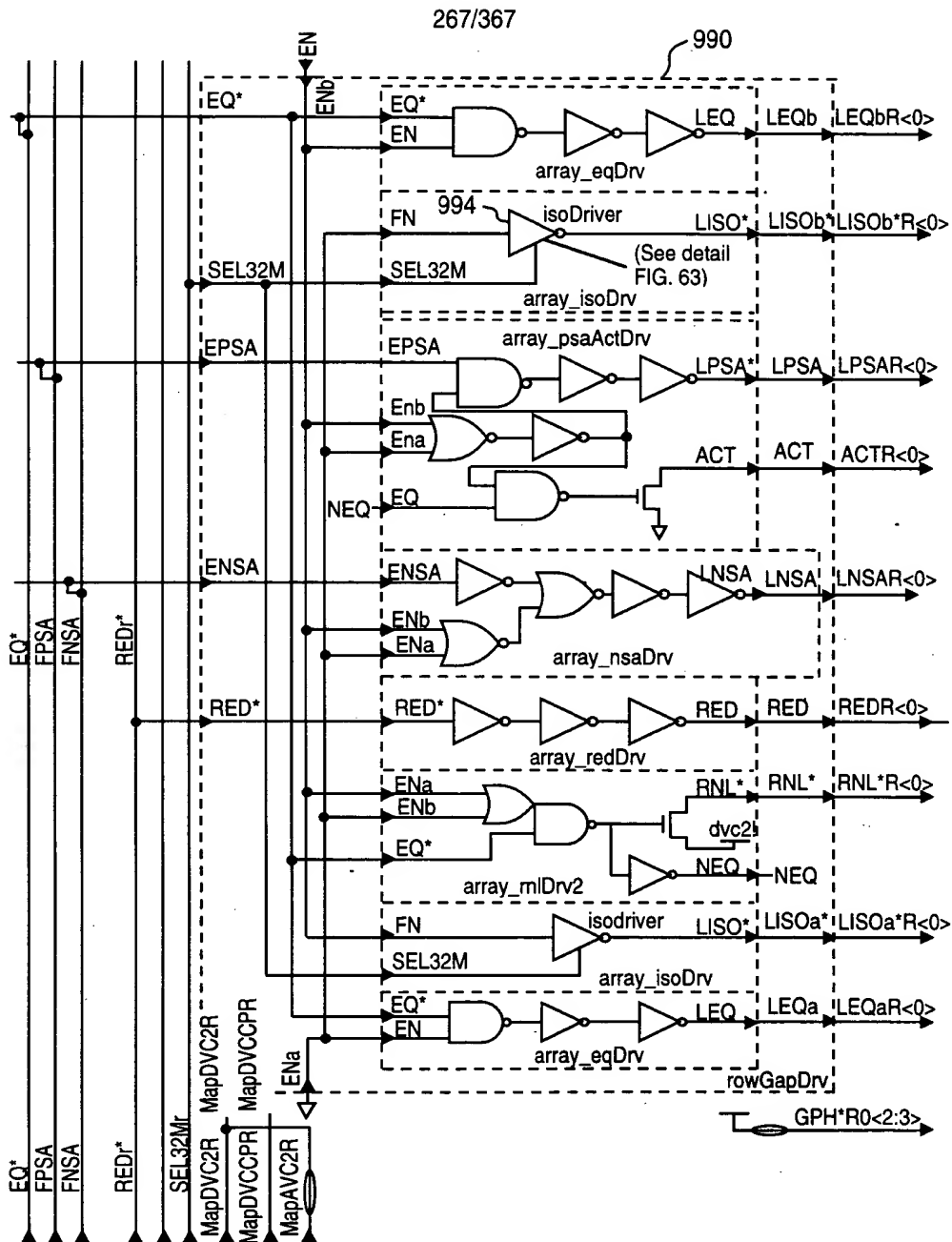
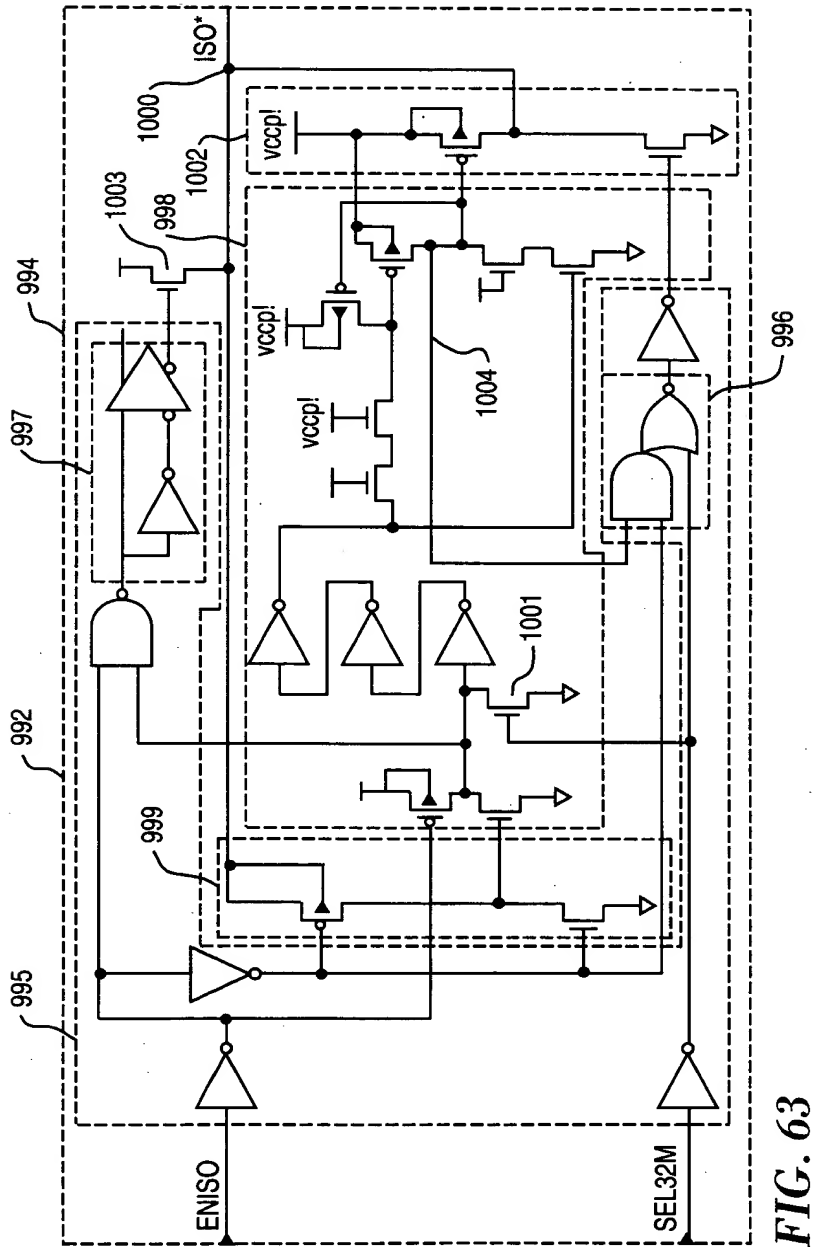


FIG. 62

**FIG. 63**

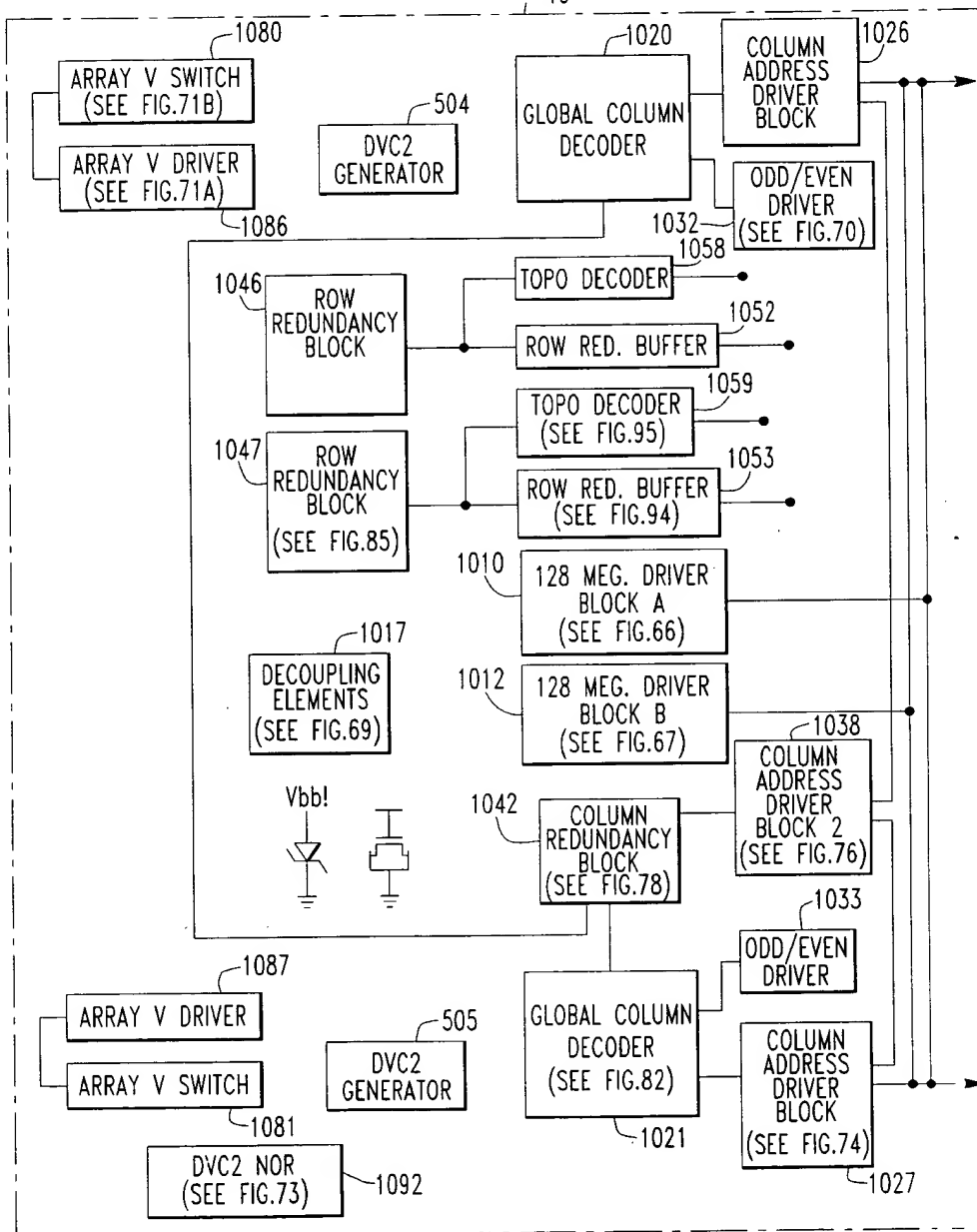


FIG. 64A

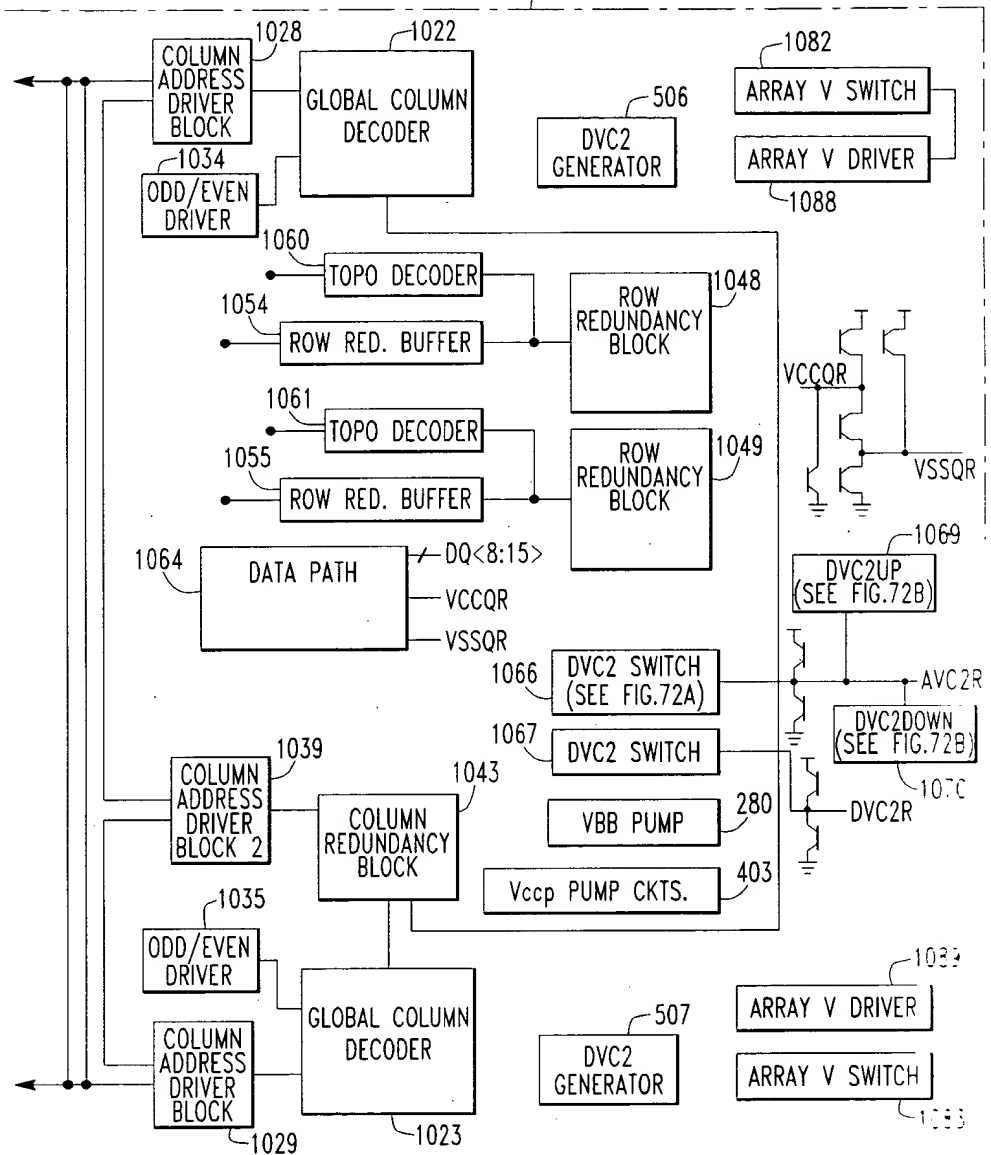


FIG. 64B

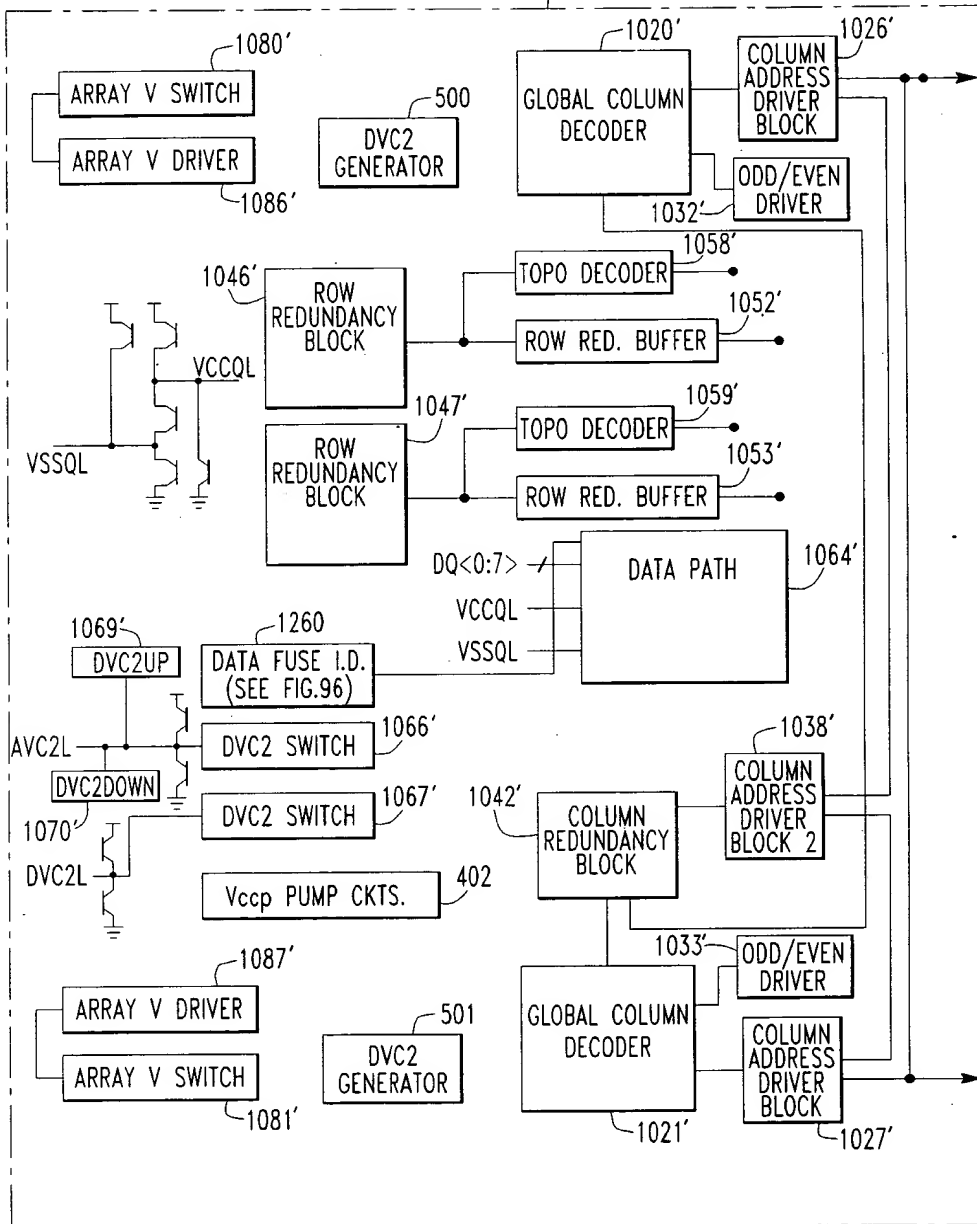


FIG. 65A

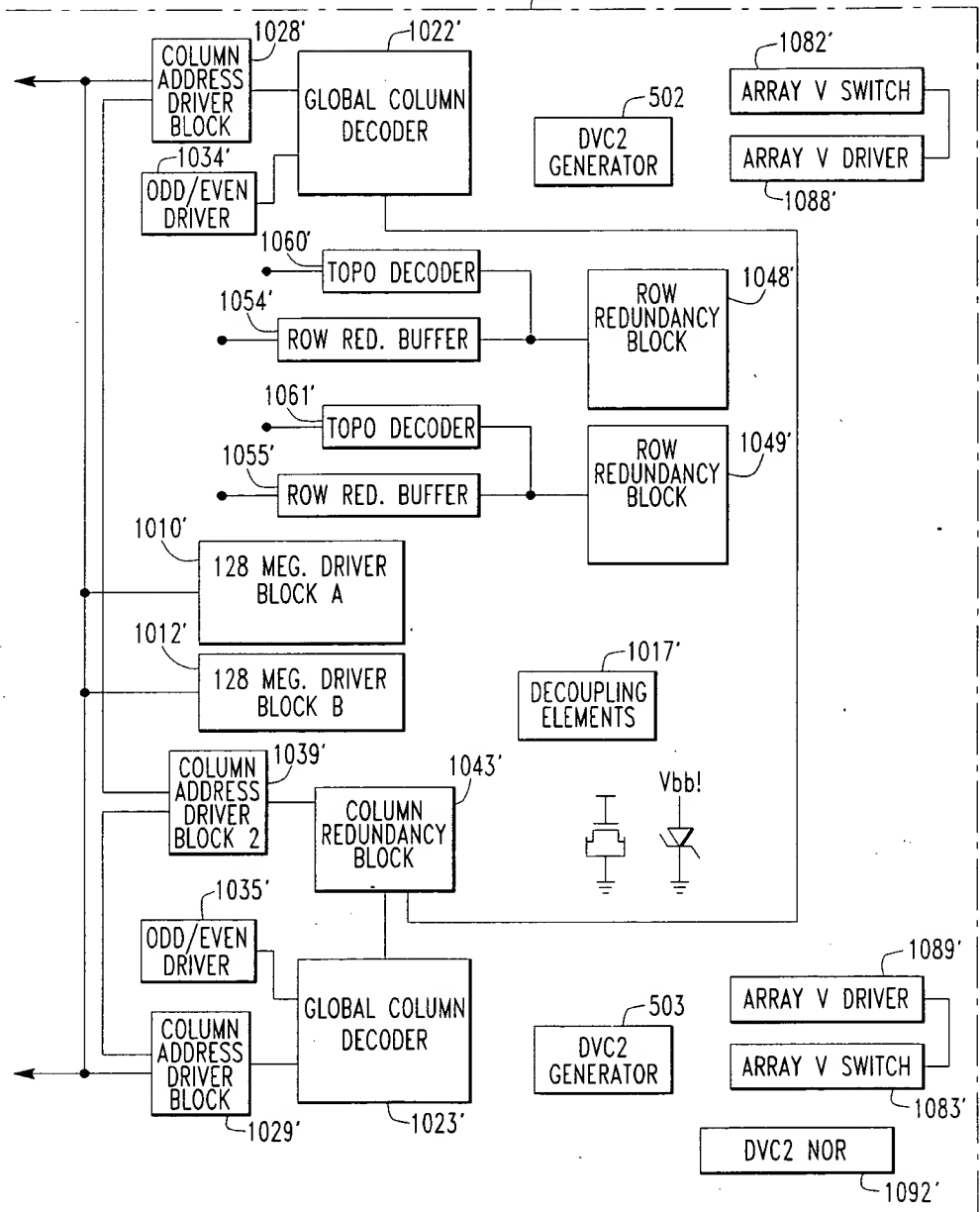


FIG. 65B

1010

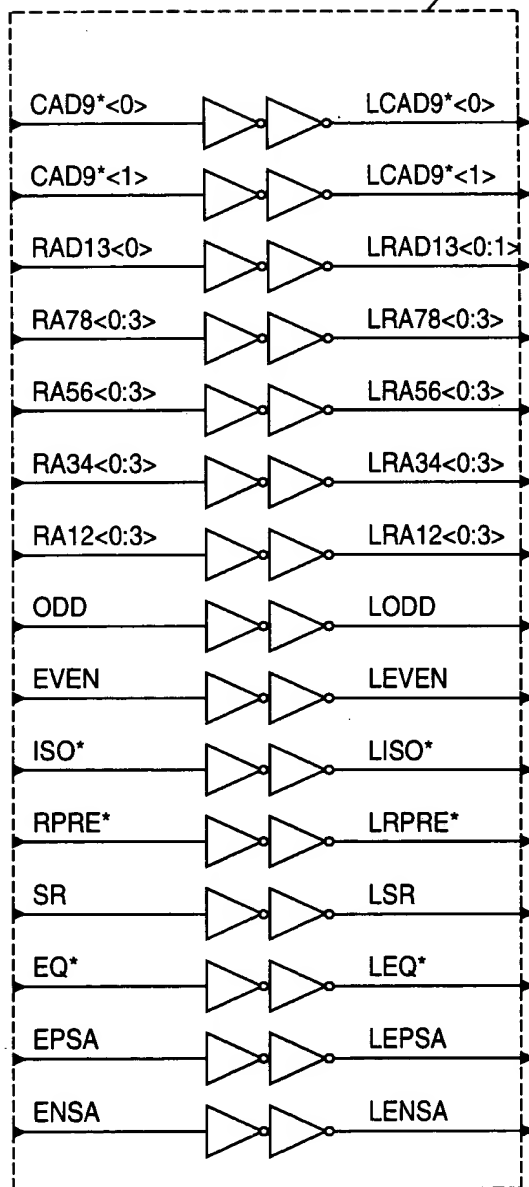


FIG. 66

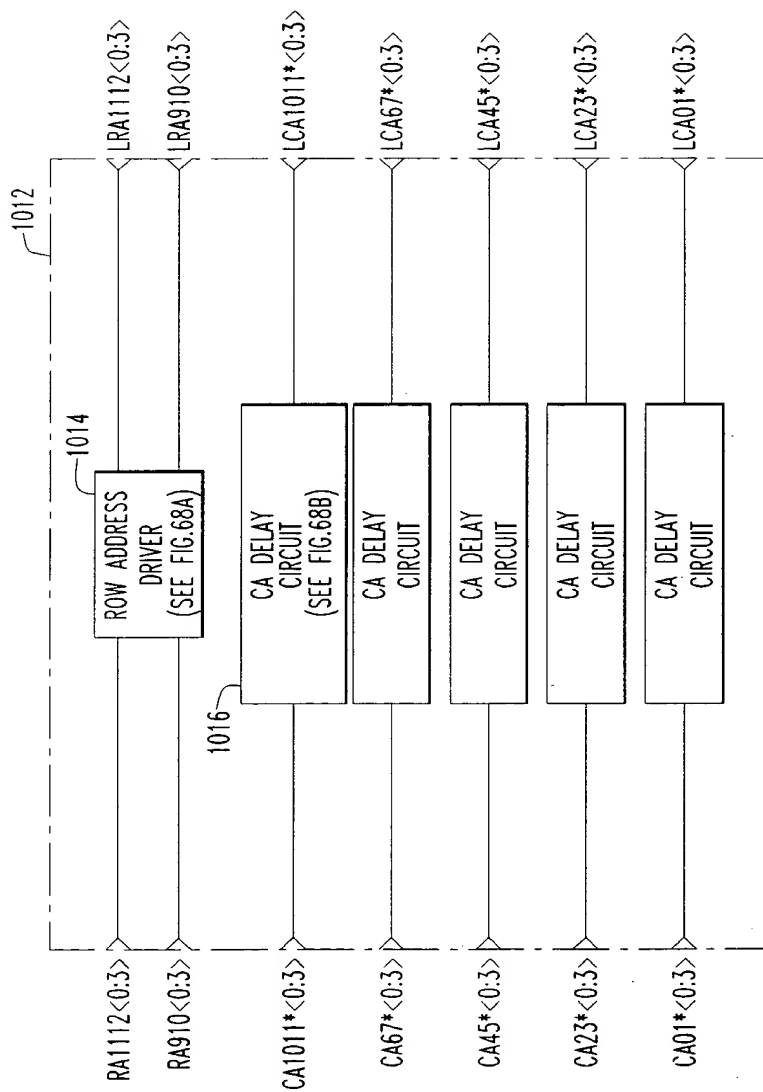
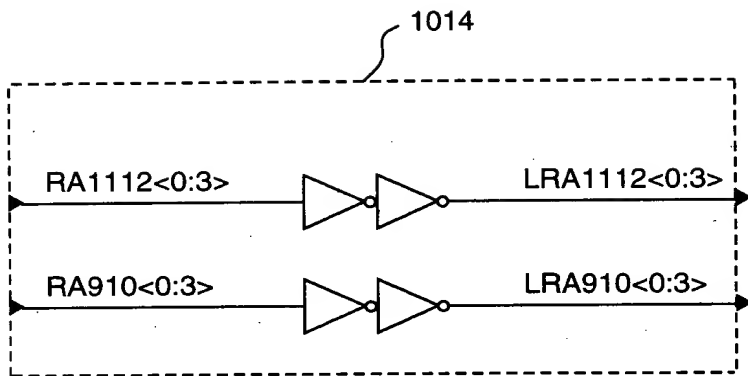
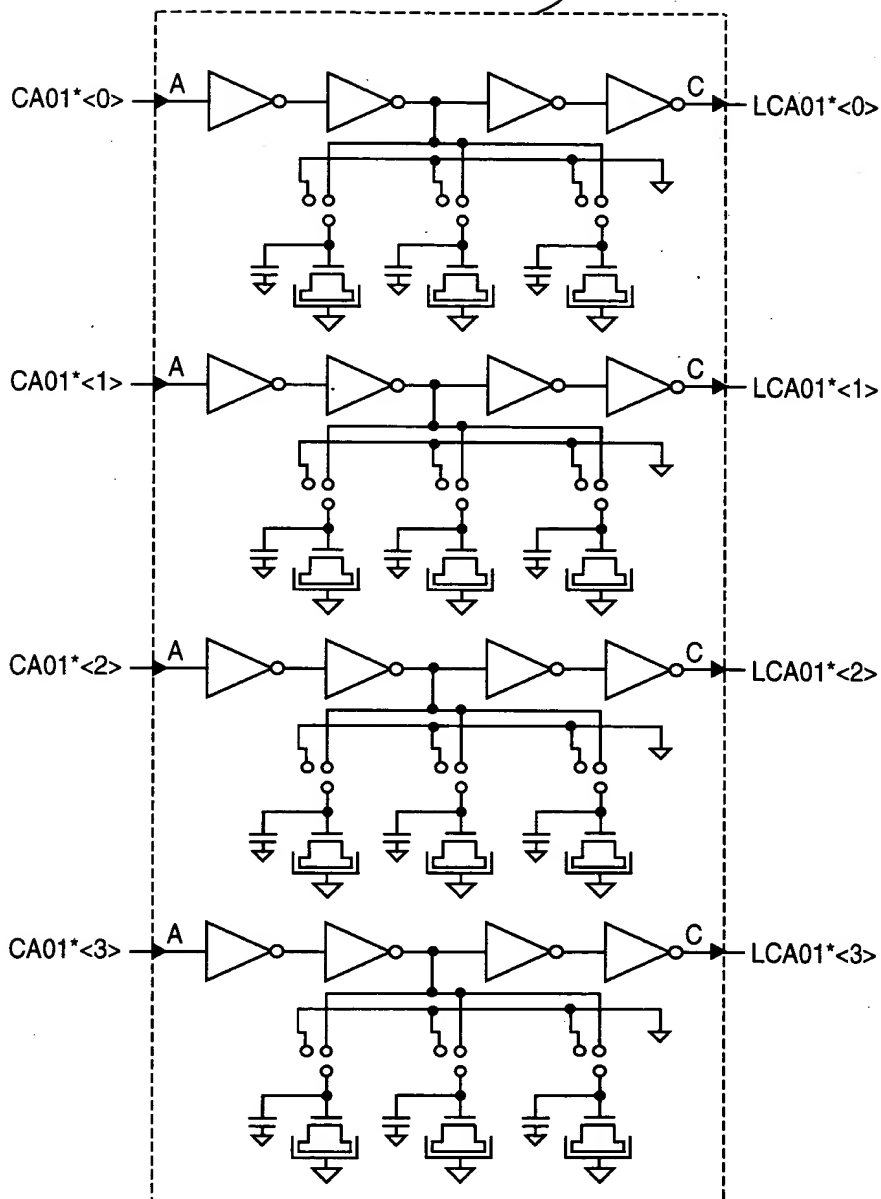
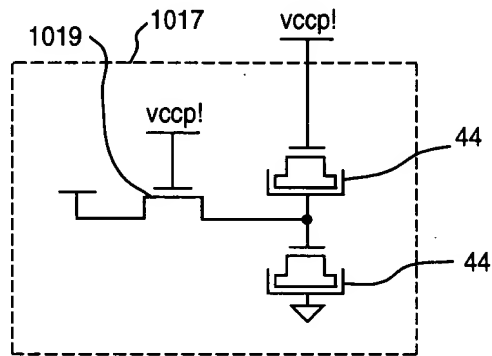
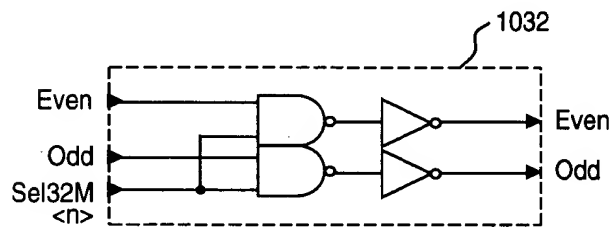


FIG. 67

**FIG. 68A**

**FIG. 68B**

**FIG. 69**

**FIG. 70**

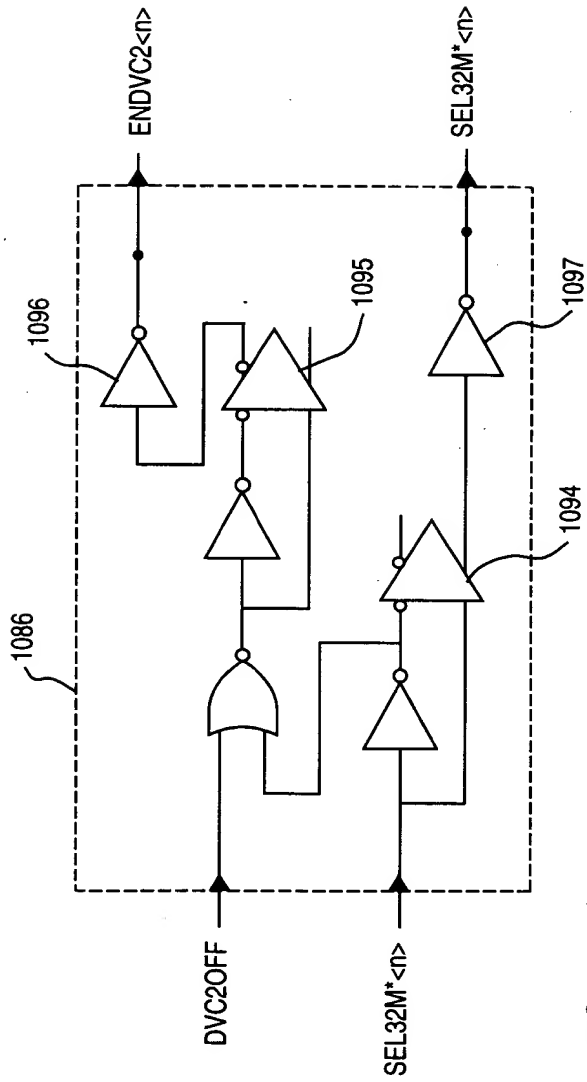
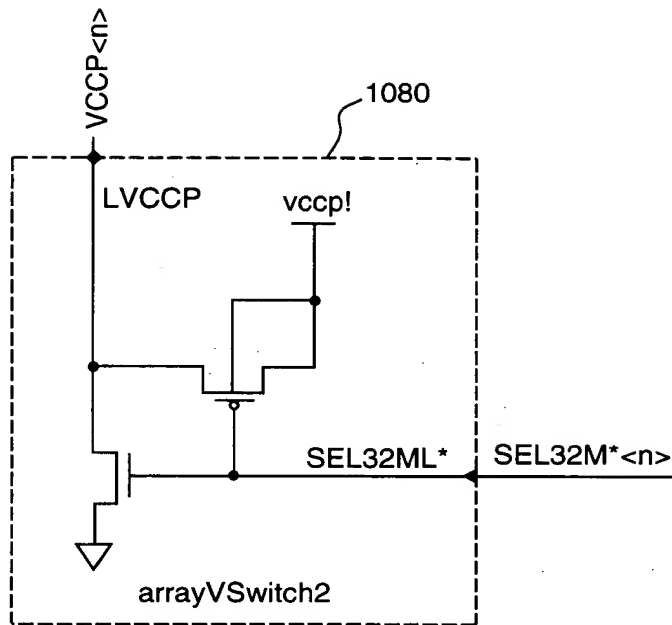


FIG. 71A

**FIG. 71B**

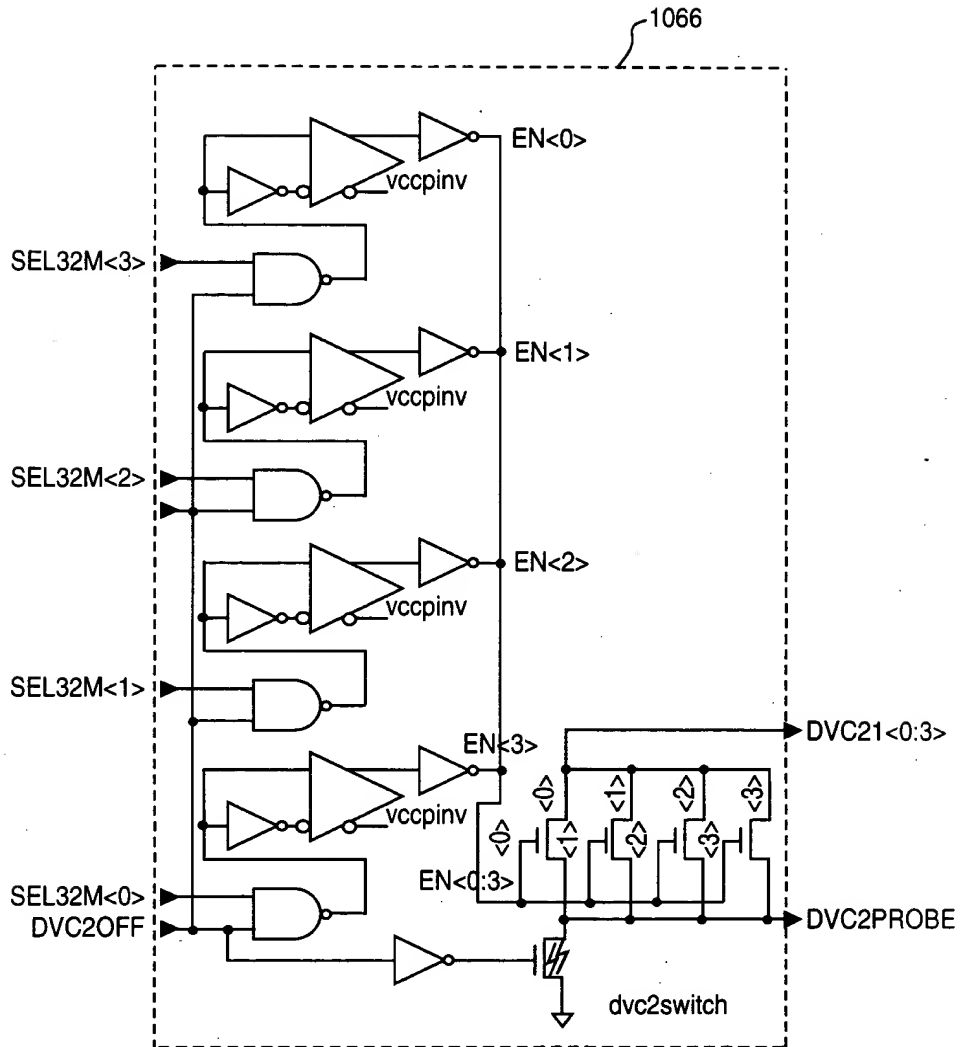


FIG. 72A

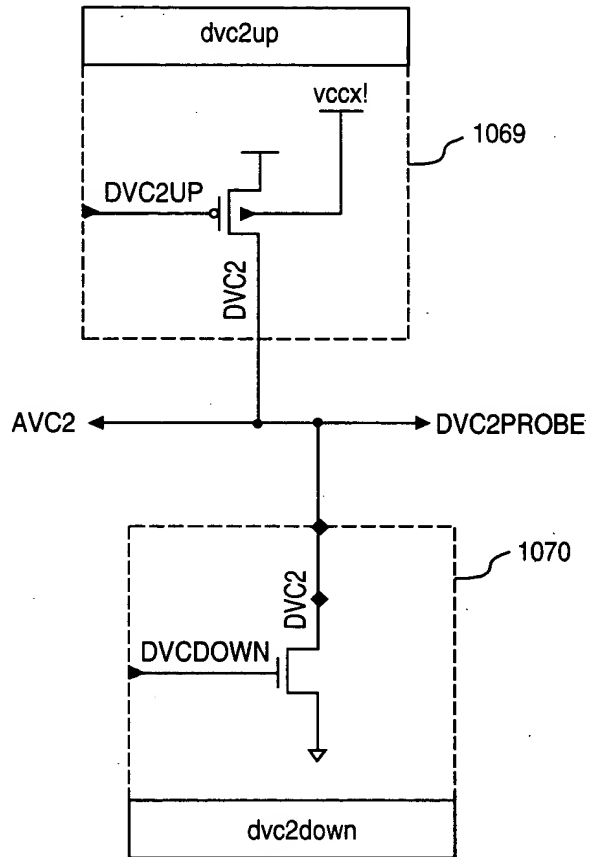
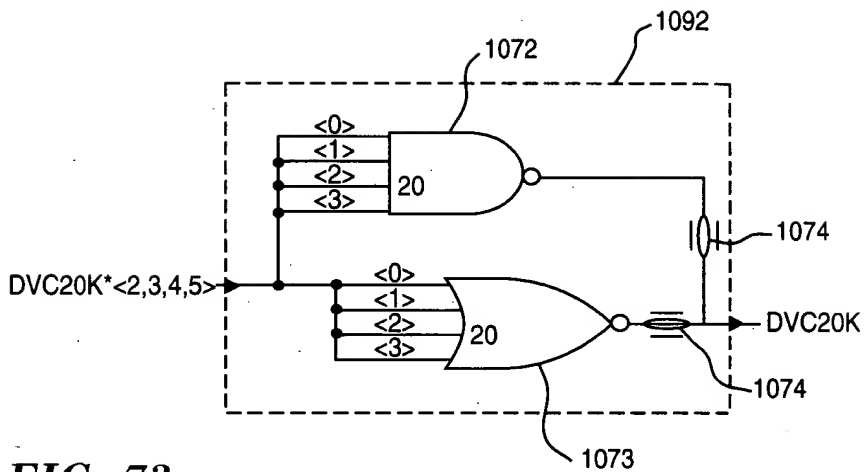


FIG. 72B

**FIG. 73**

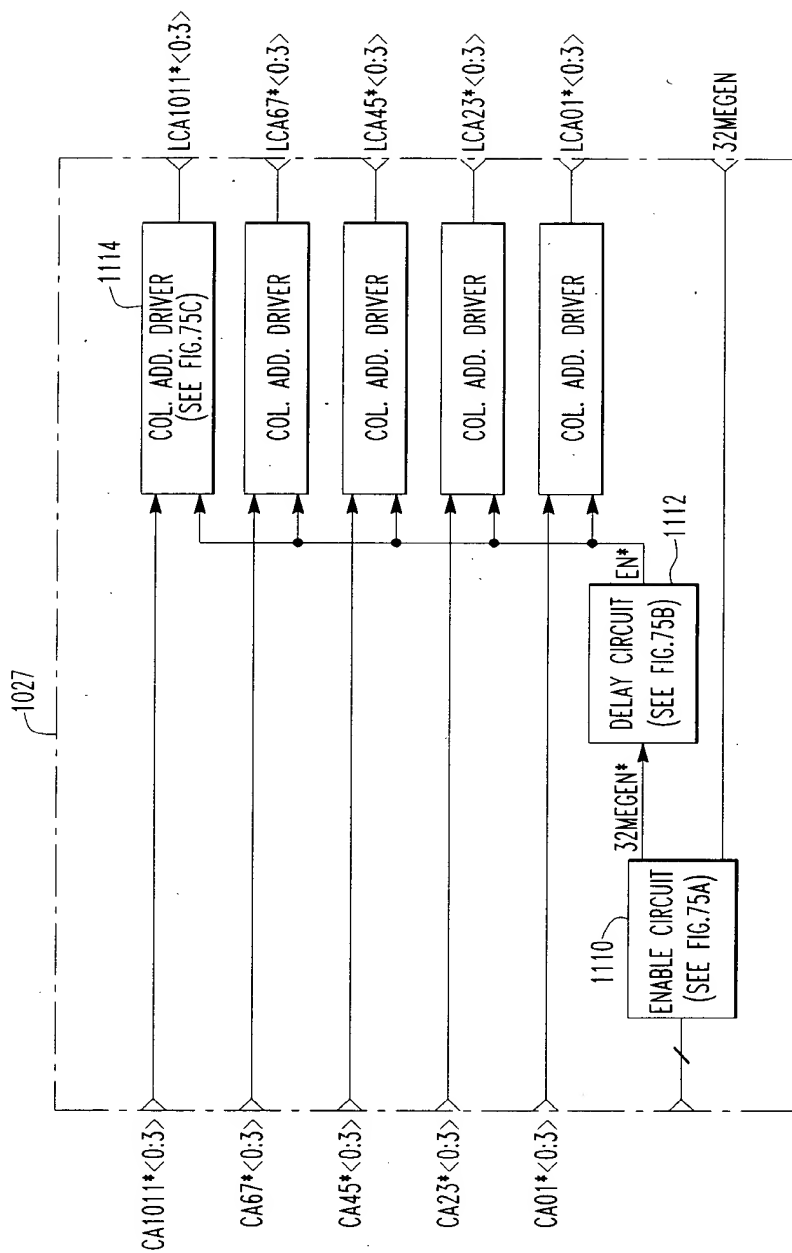


FIG. 74

FIG. 75A

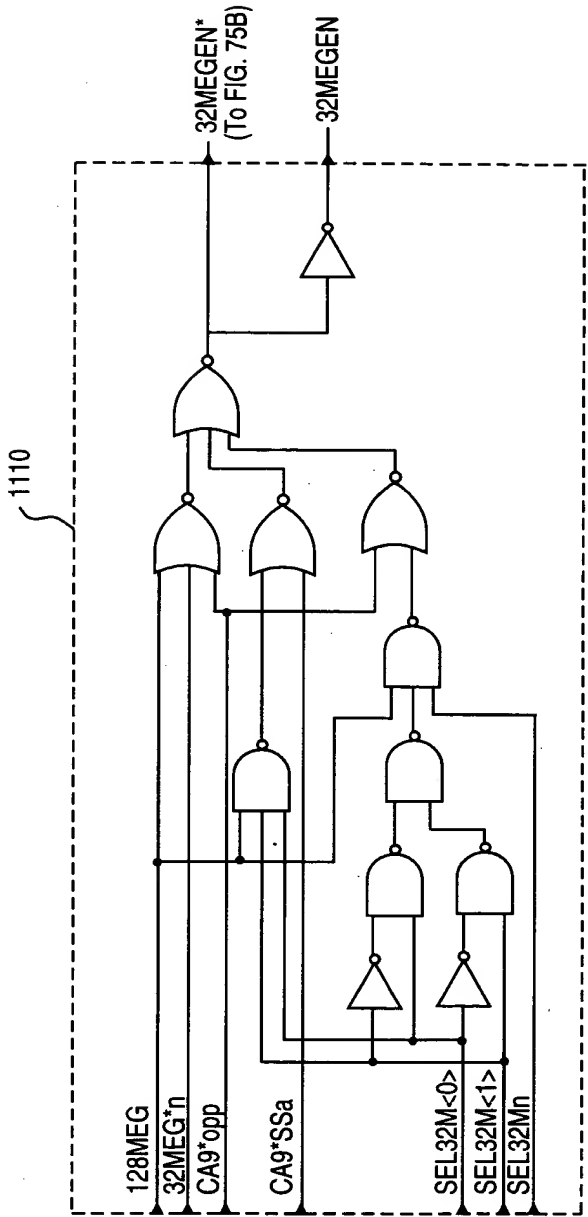


FIG. 75A

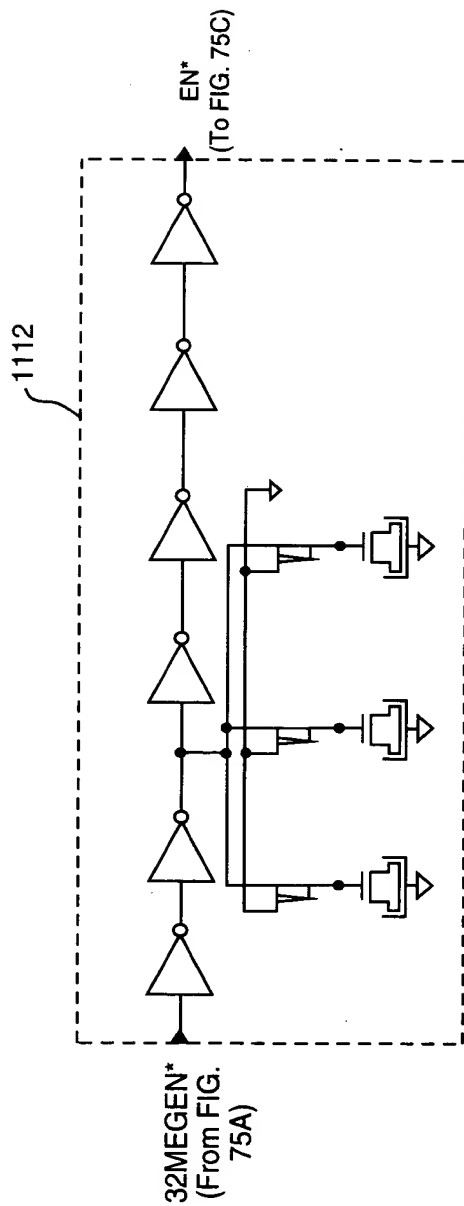


FIG. 75B

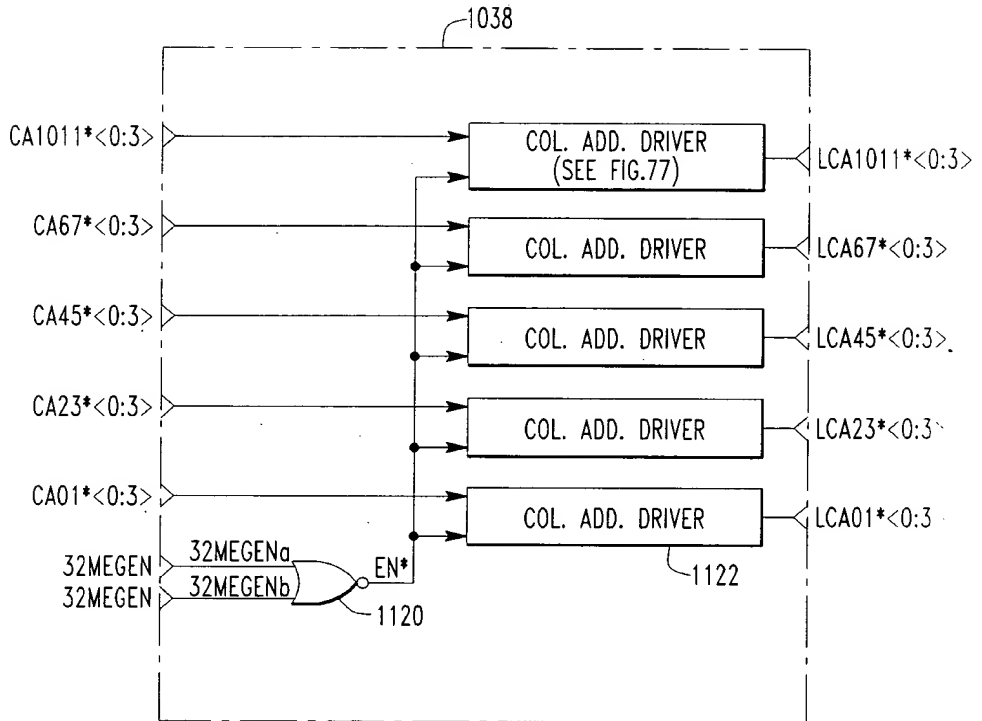


FIG. 76

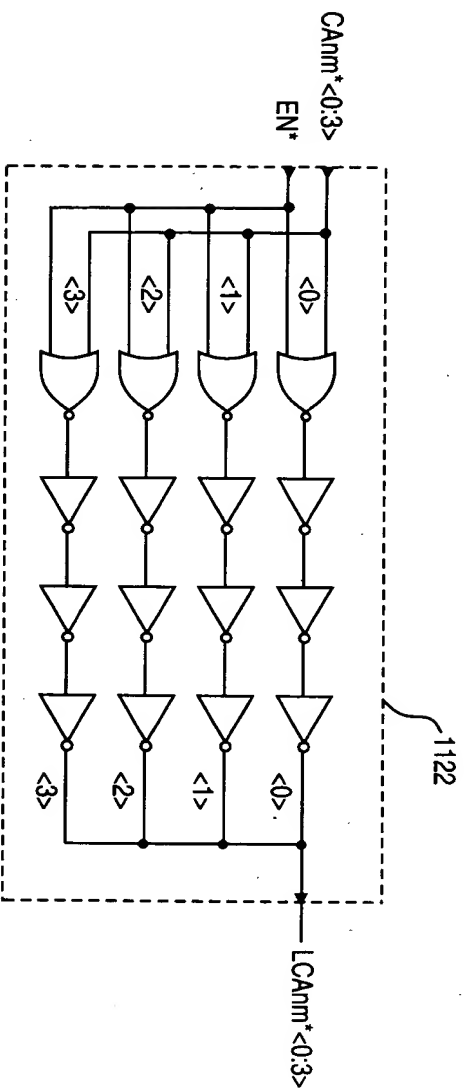


FIG. 77

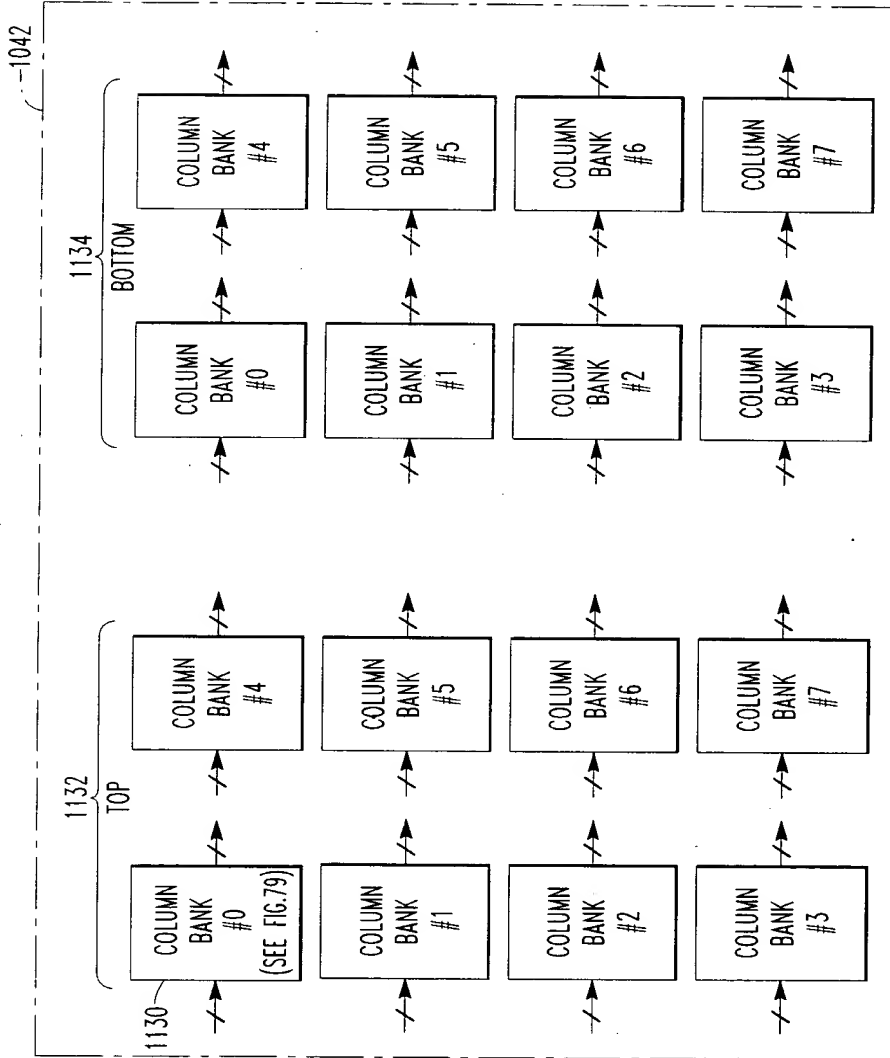
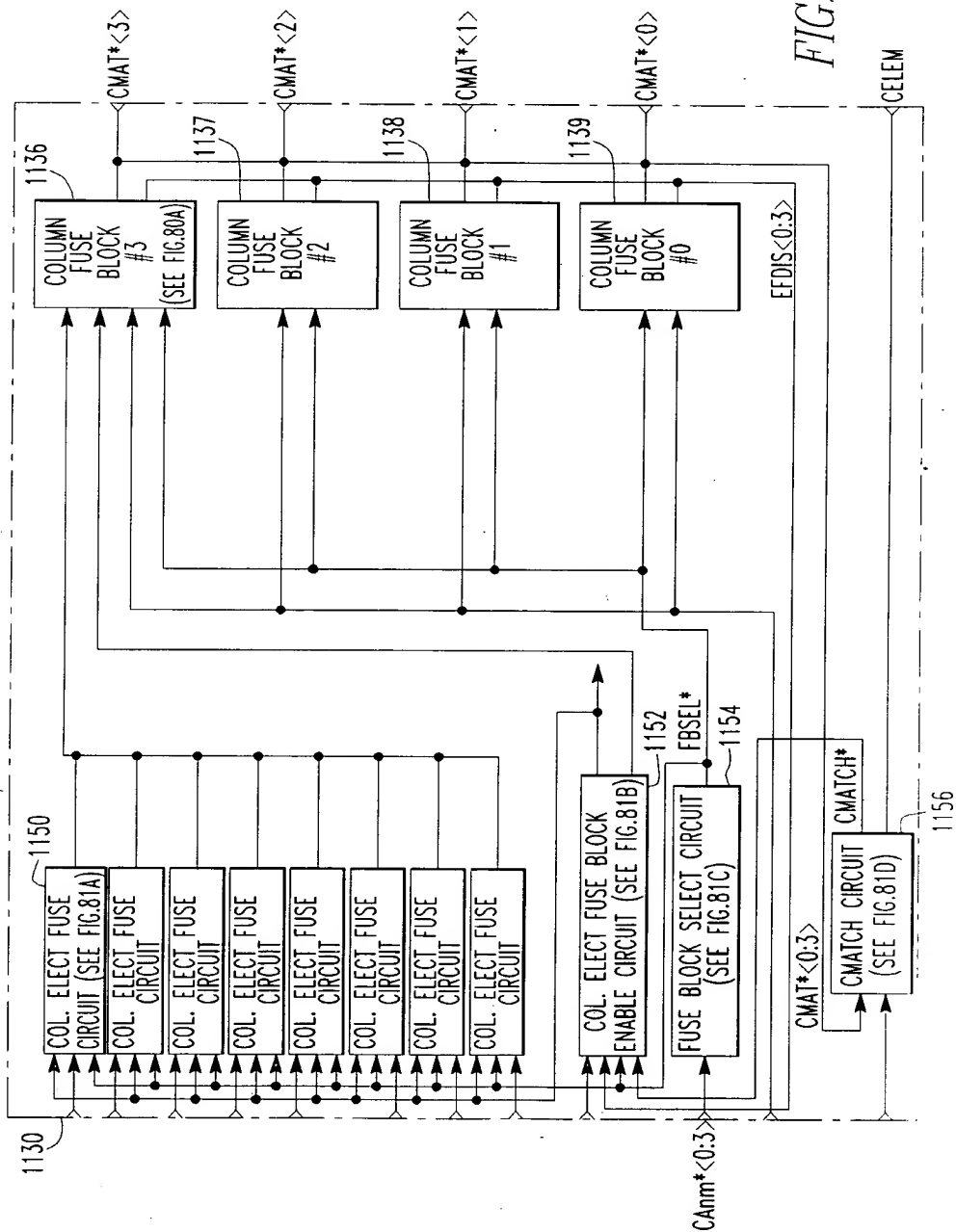


FIG. 78



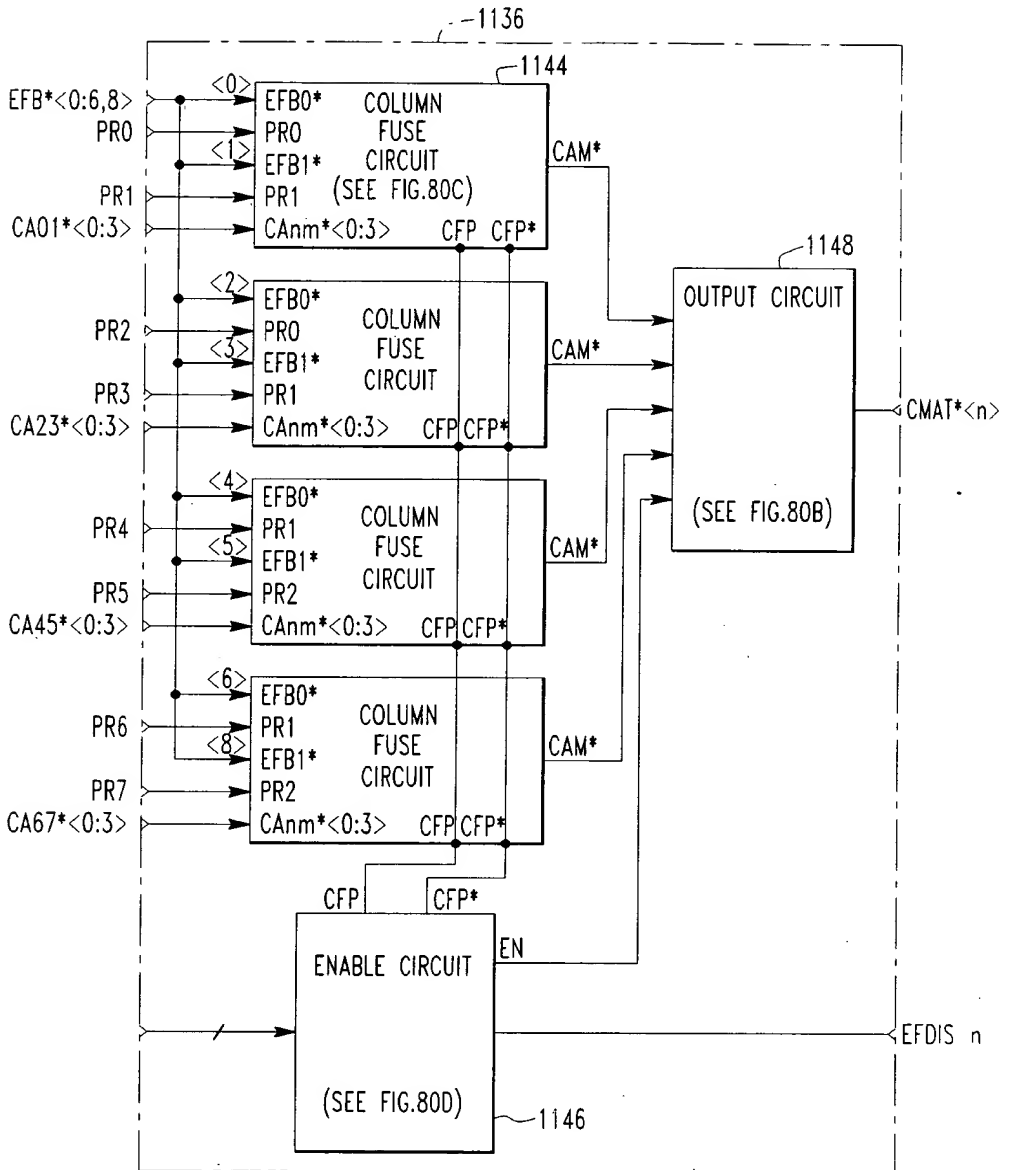
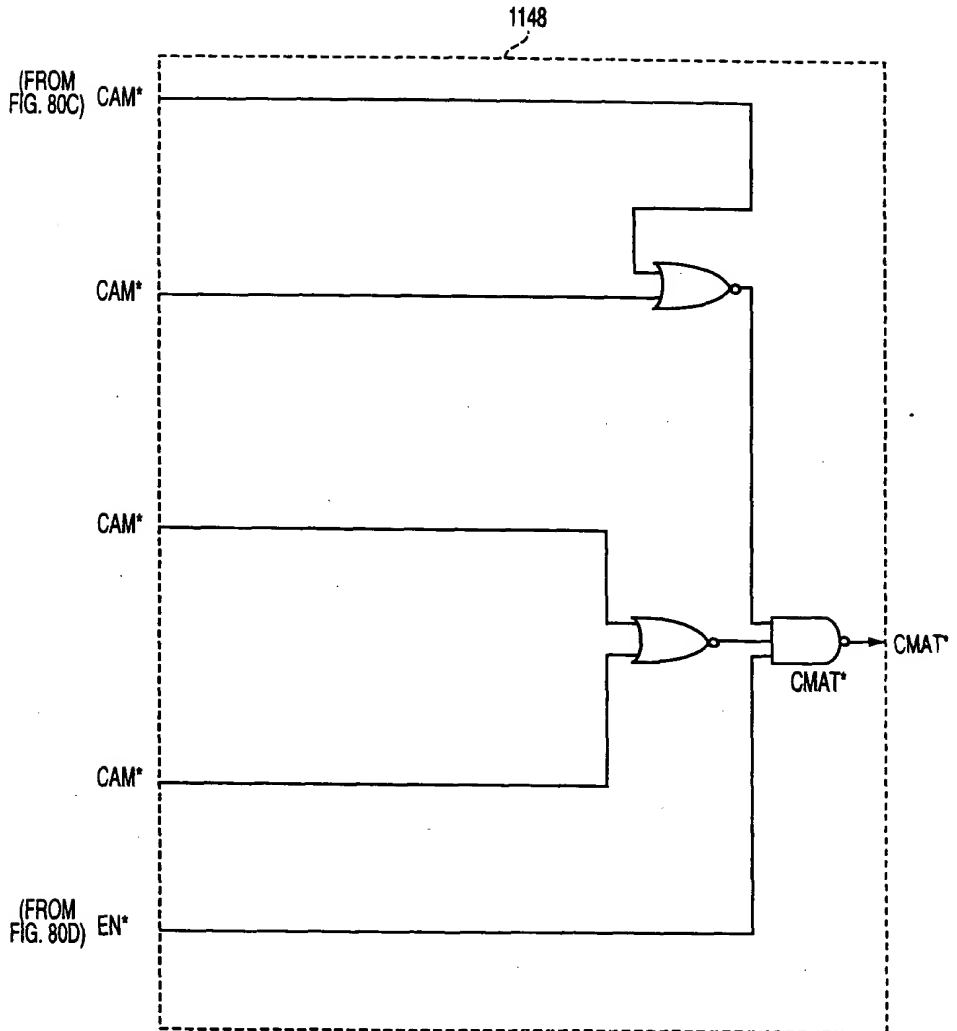


FIG. 80A

**FIG. 80B**

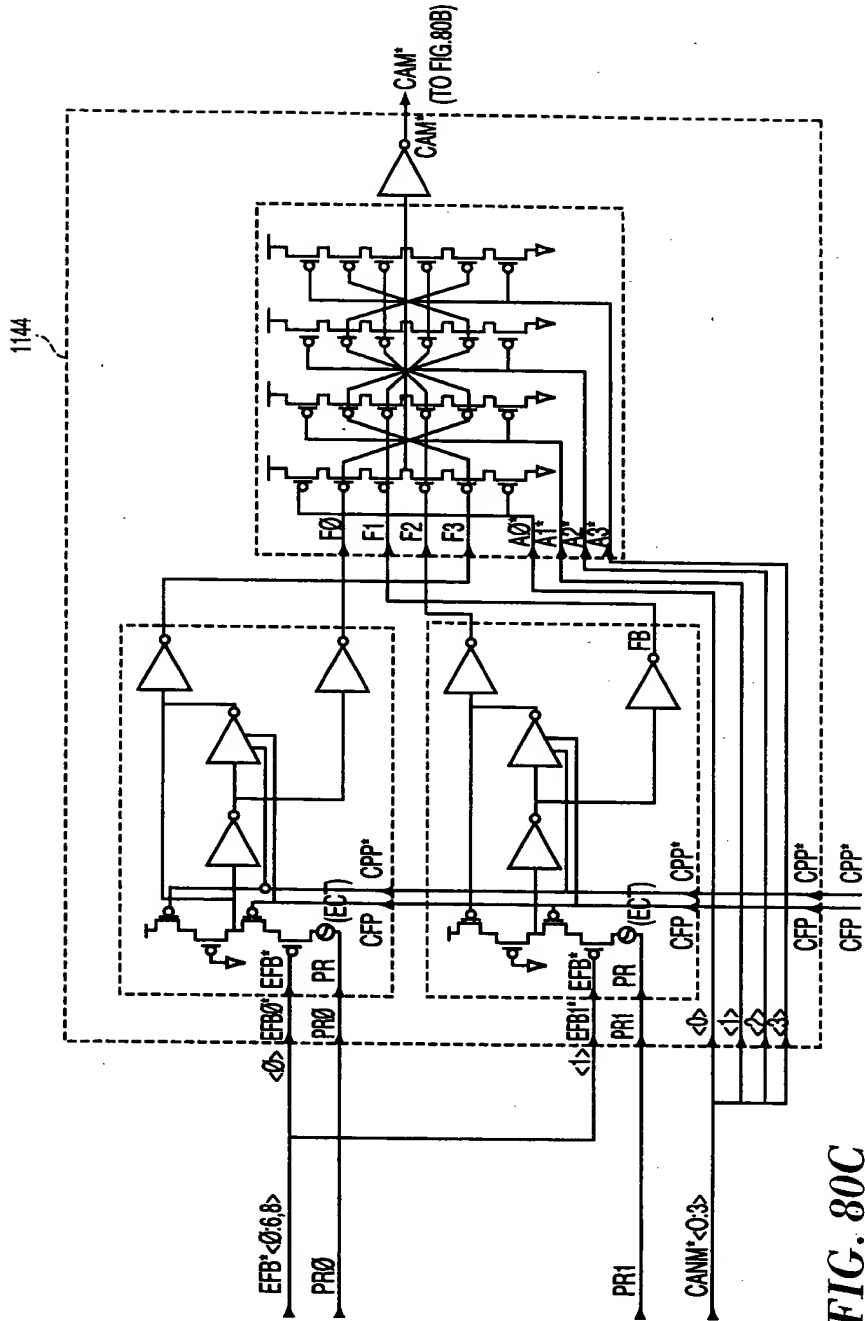


FIG. 80C

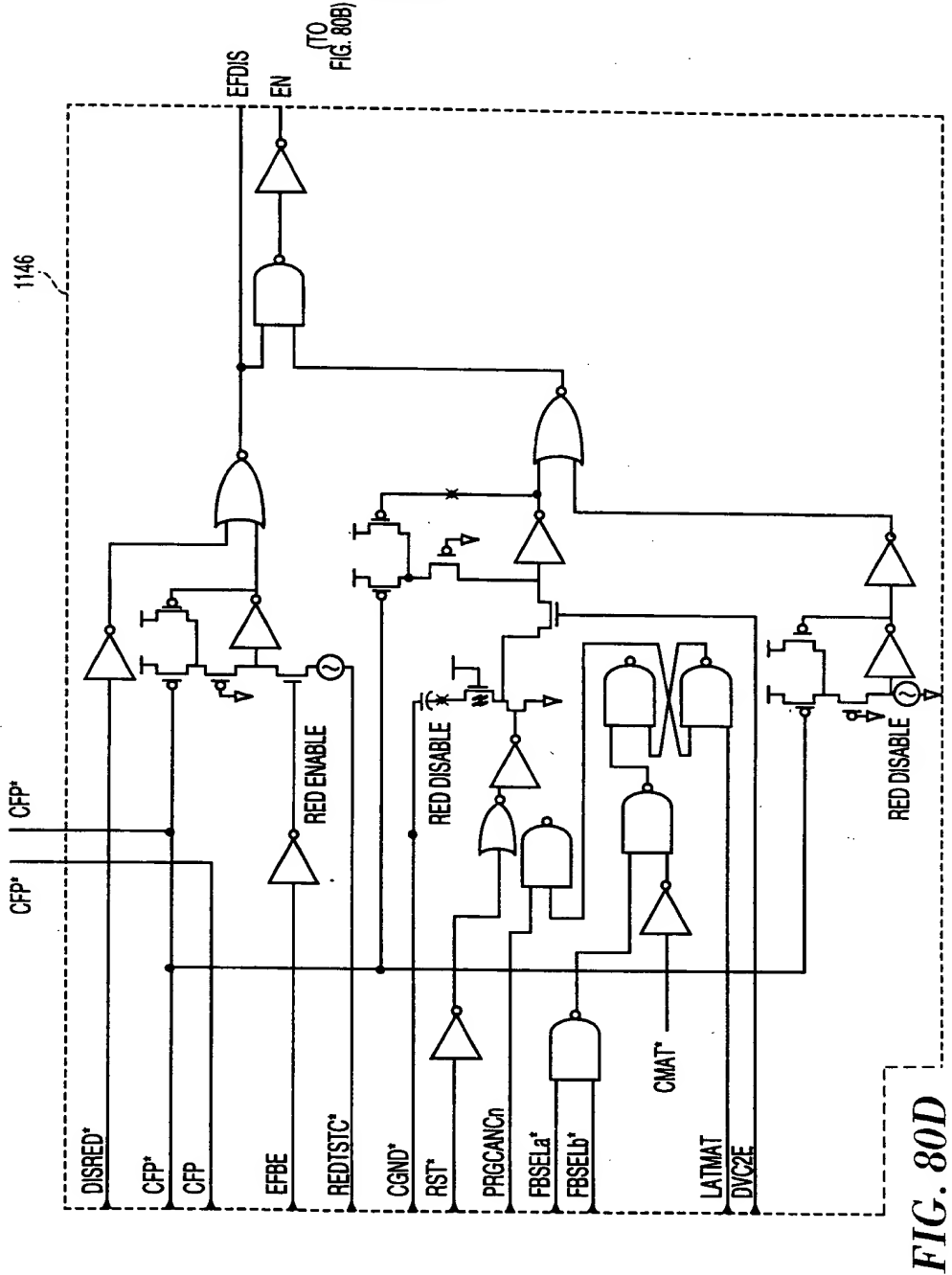


FIG. 80D

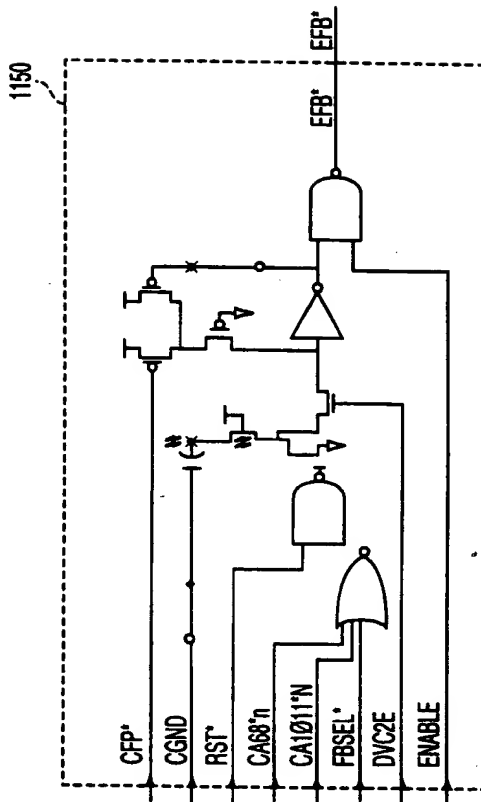


FIG. 81A

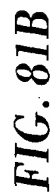


FIG. 81B

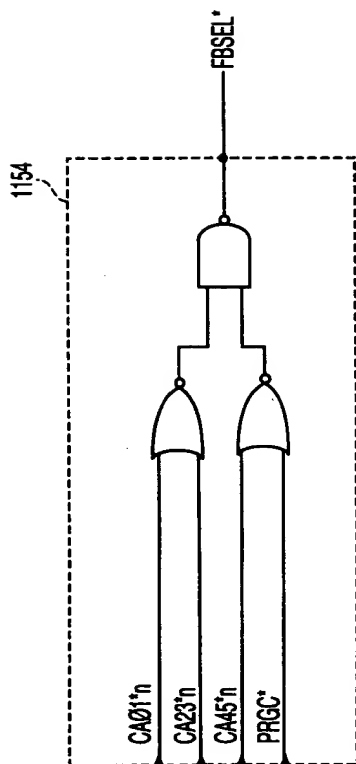


FIG. 81C

CA01*
CELEM*
CMAT*
CA1011*
CA67*

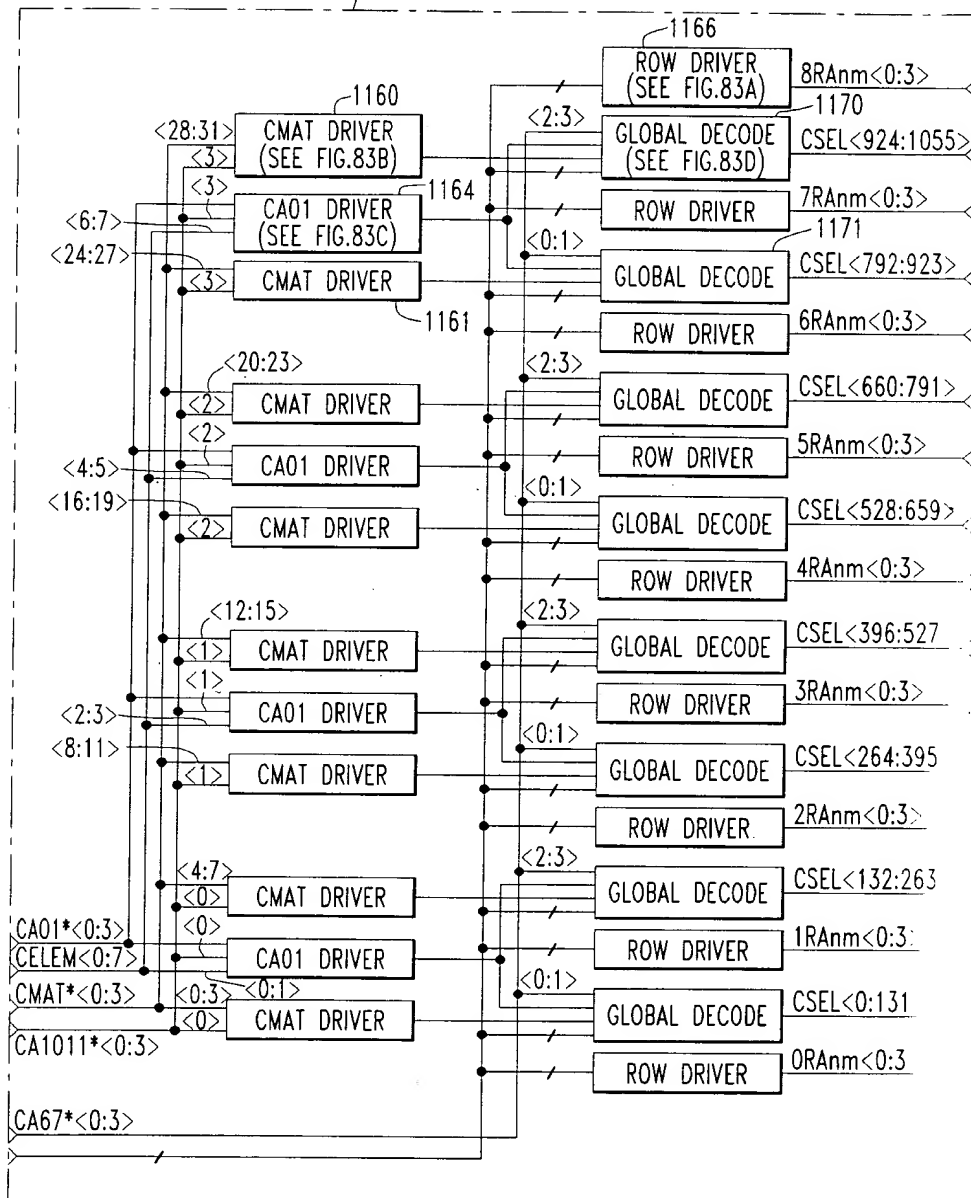


FIG. 82

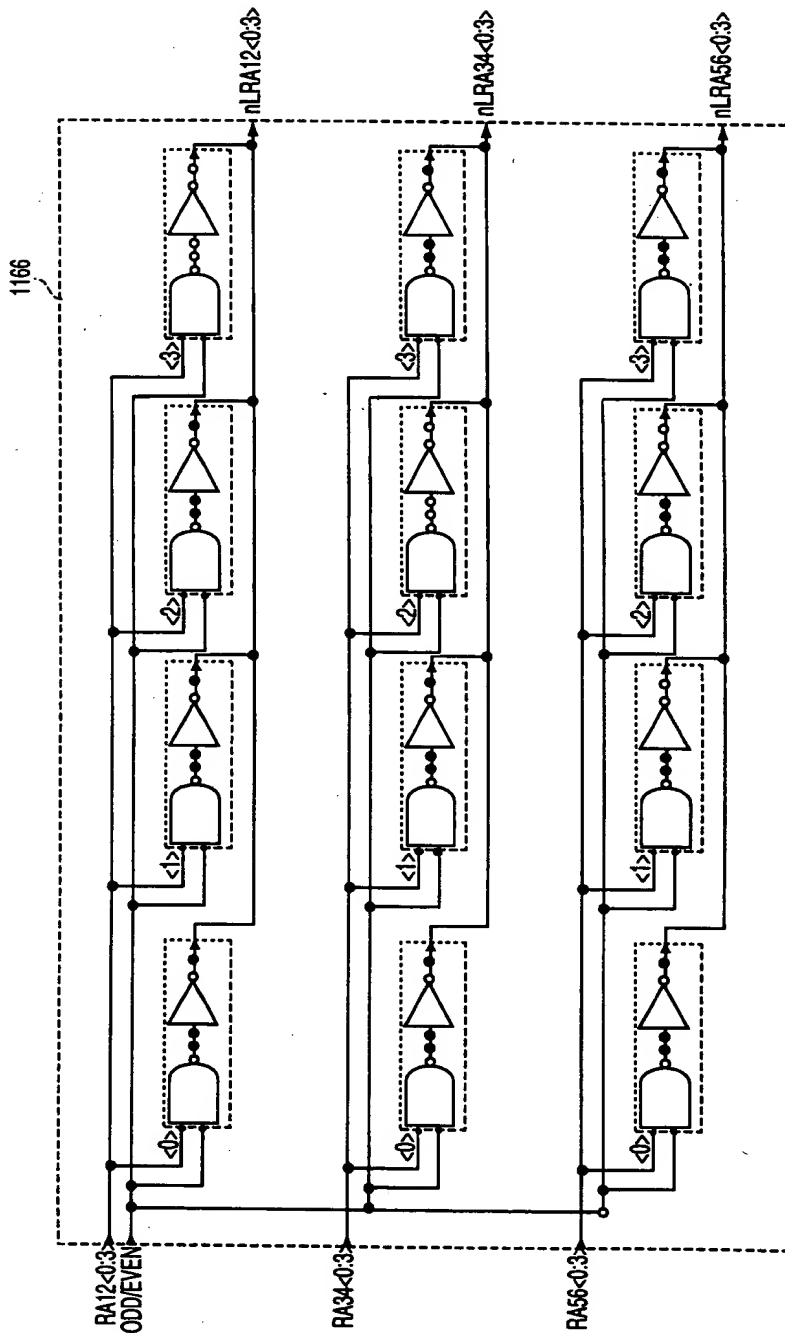


FIG. 83A

FIG. 83B

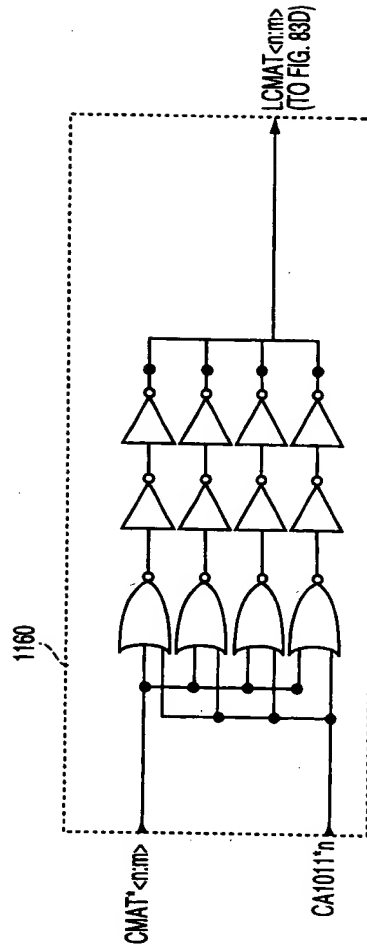


FIG. 83B

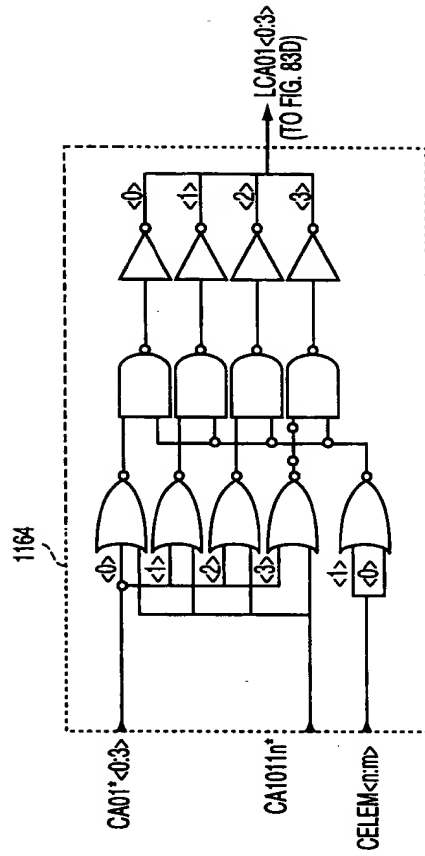


FIG. 83C

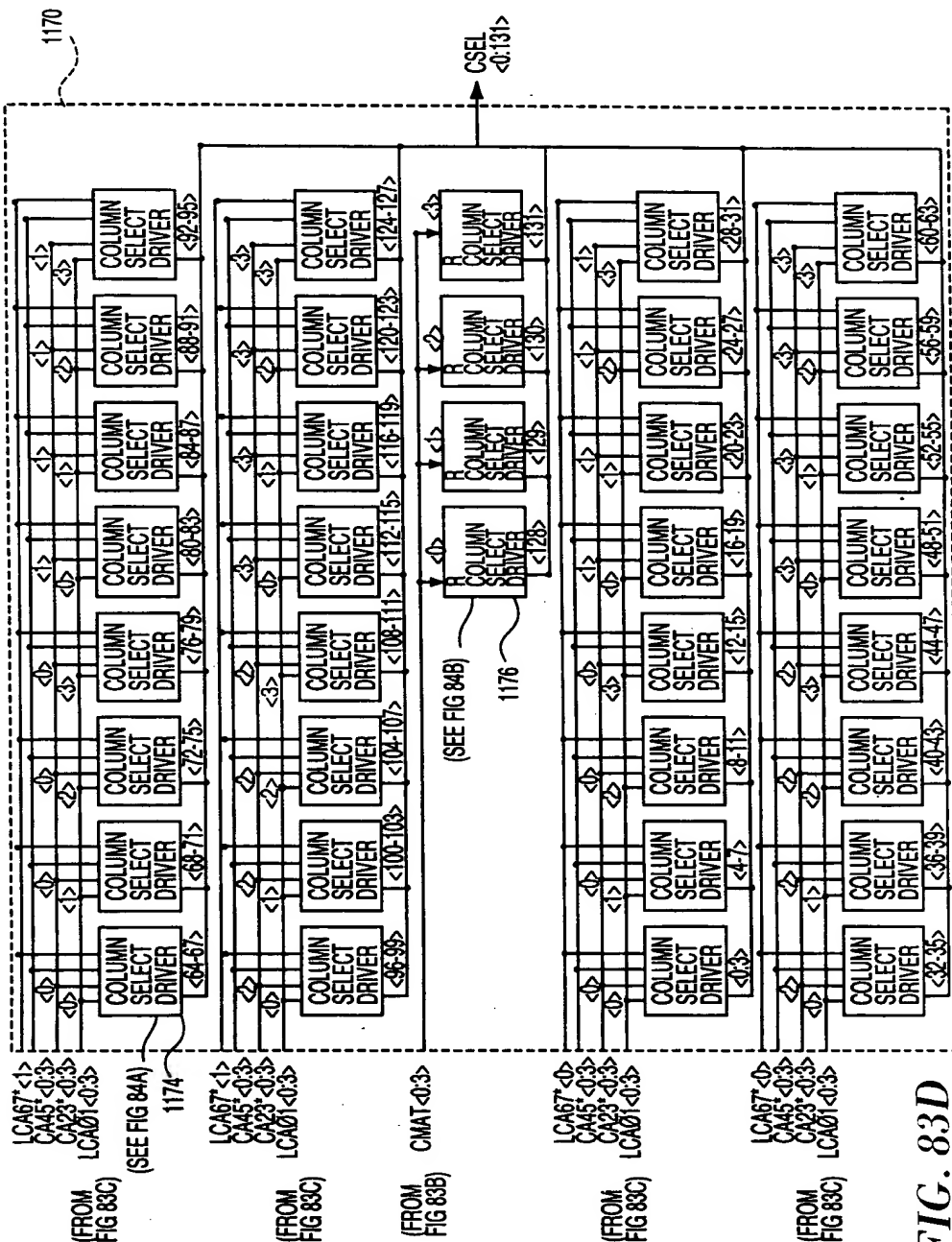


FIG. 83D

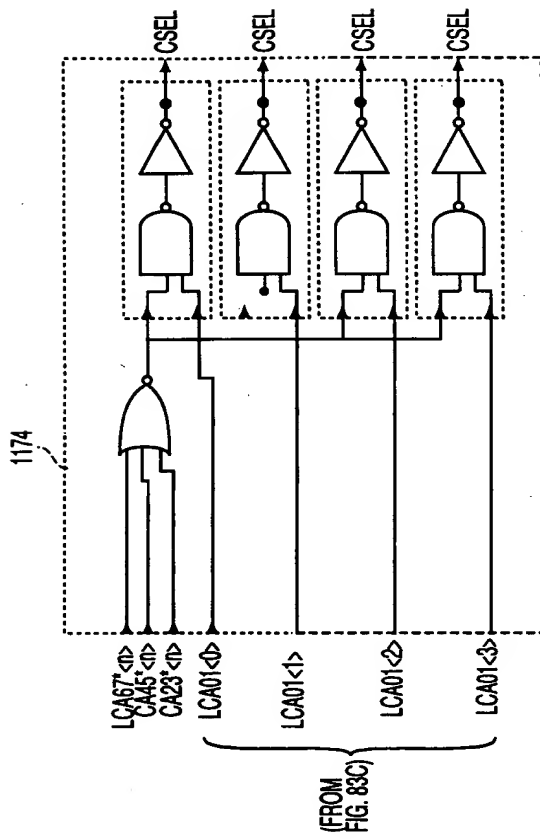
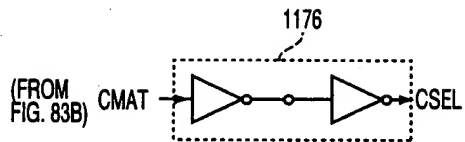
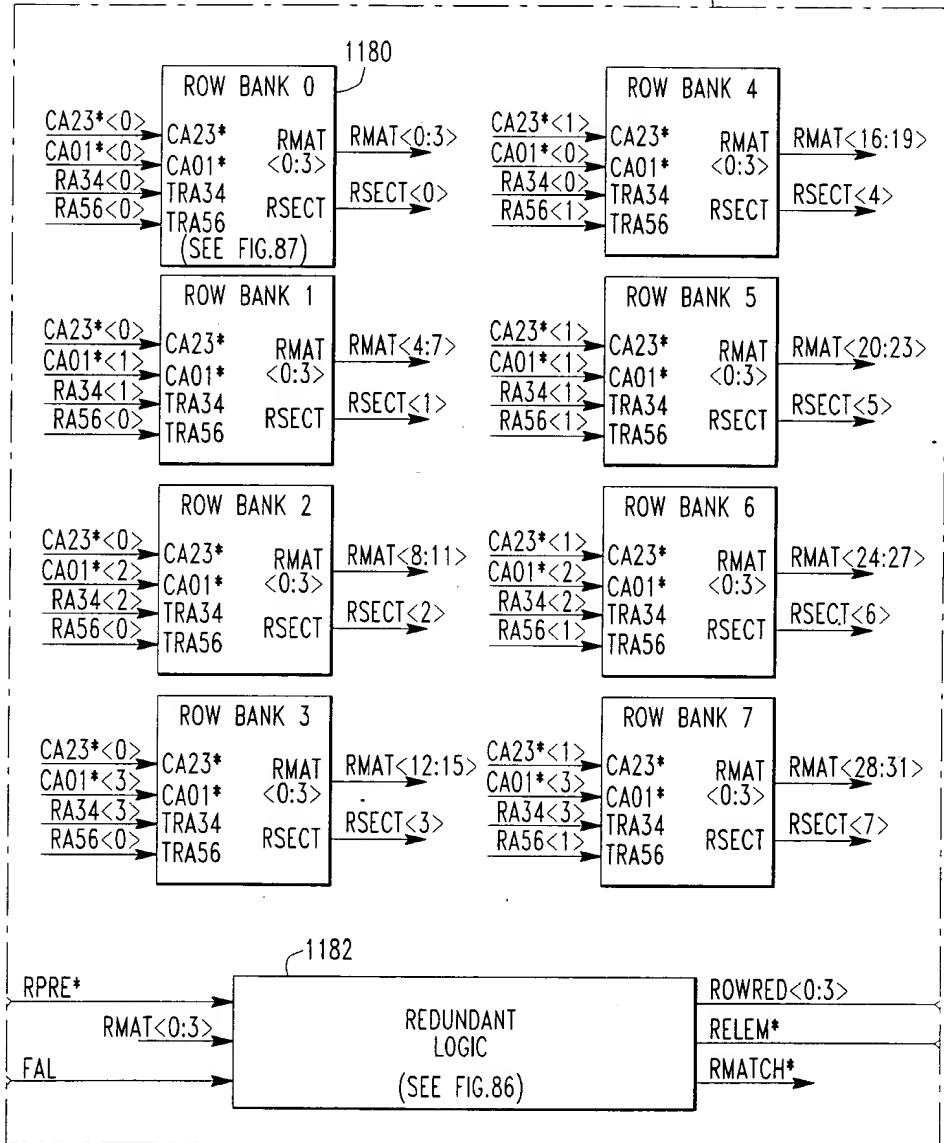


FIG. 84A

**FIG. 84B**



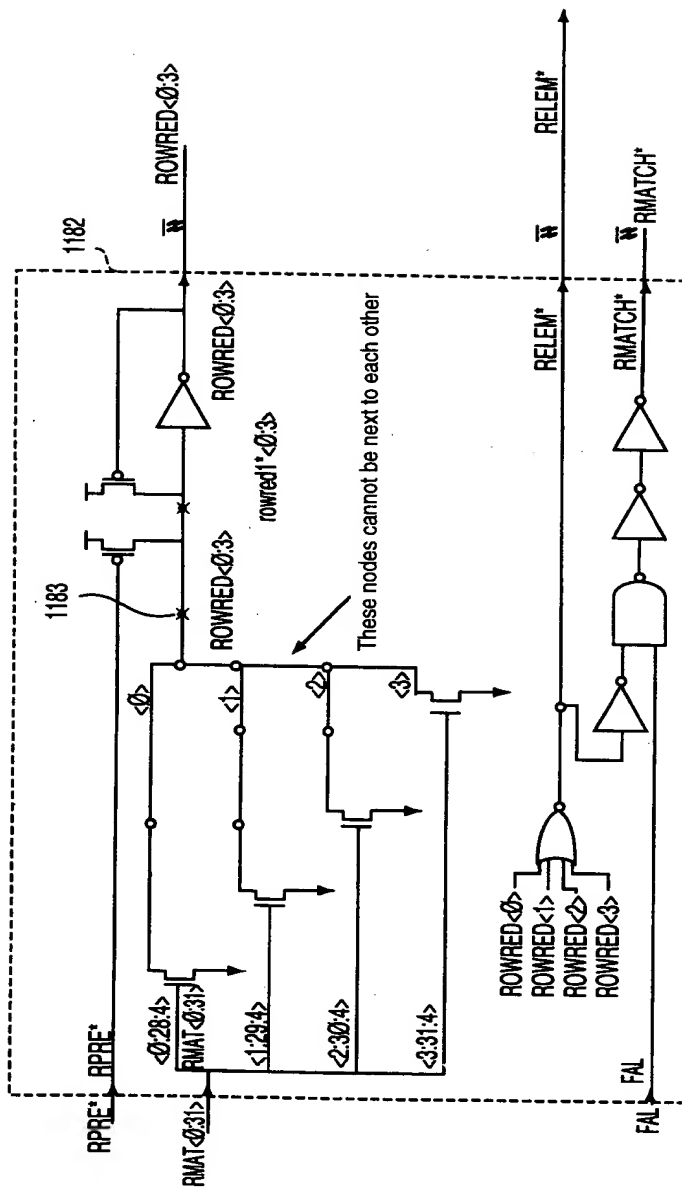


FIG. 86

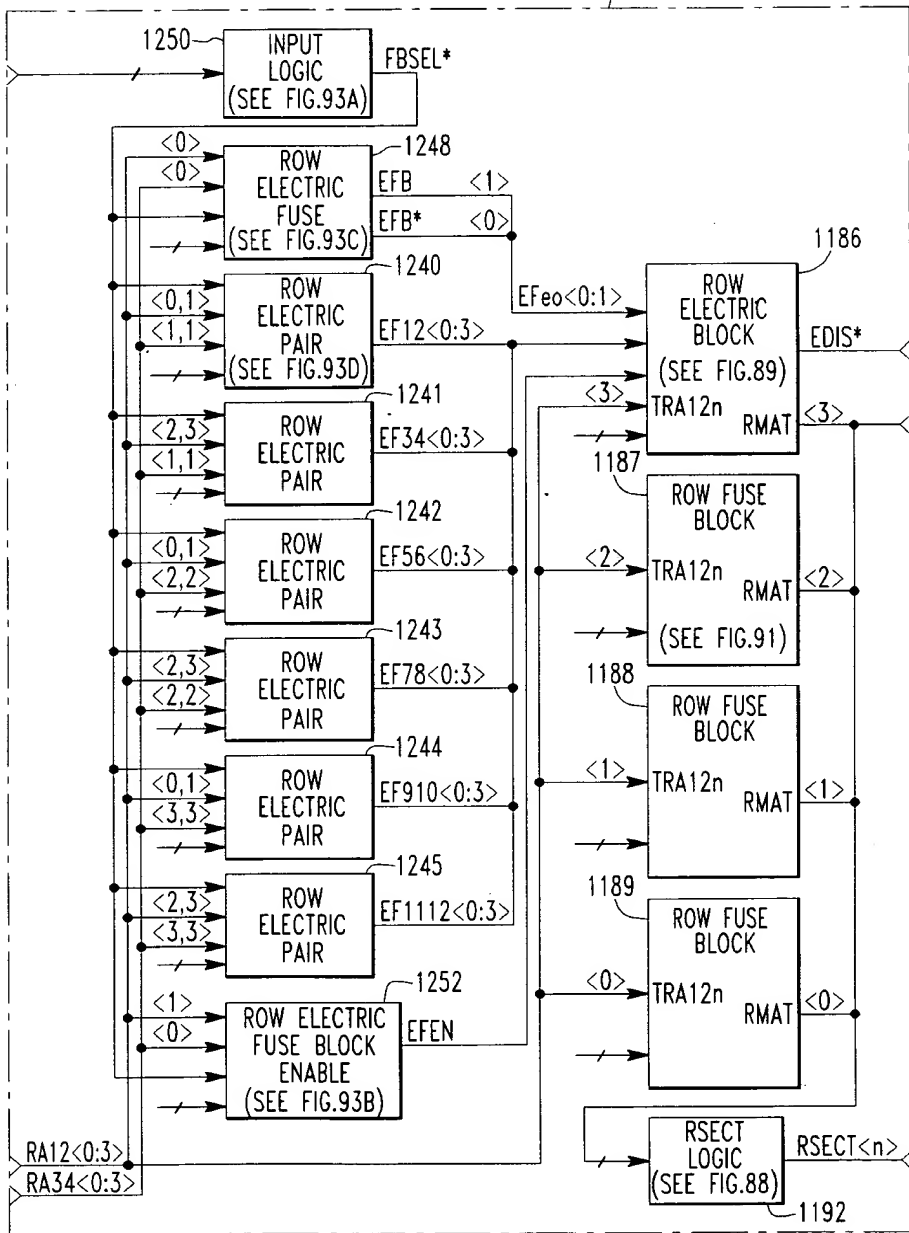
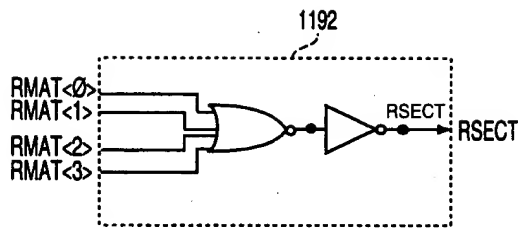


FIG. 87

**FIG. 88**

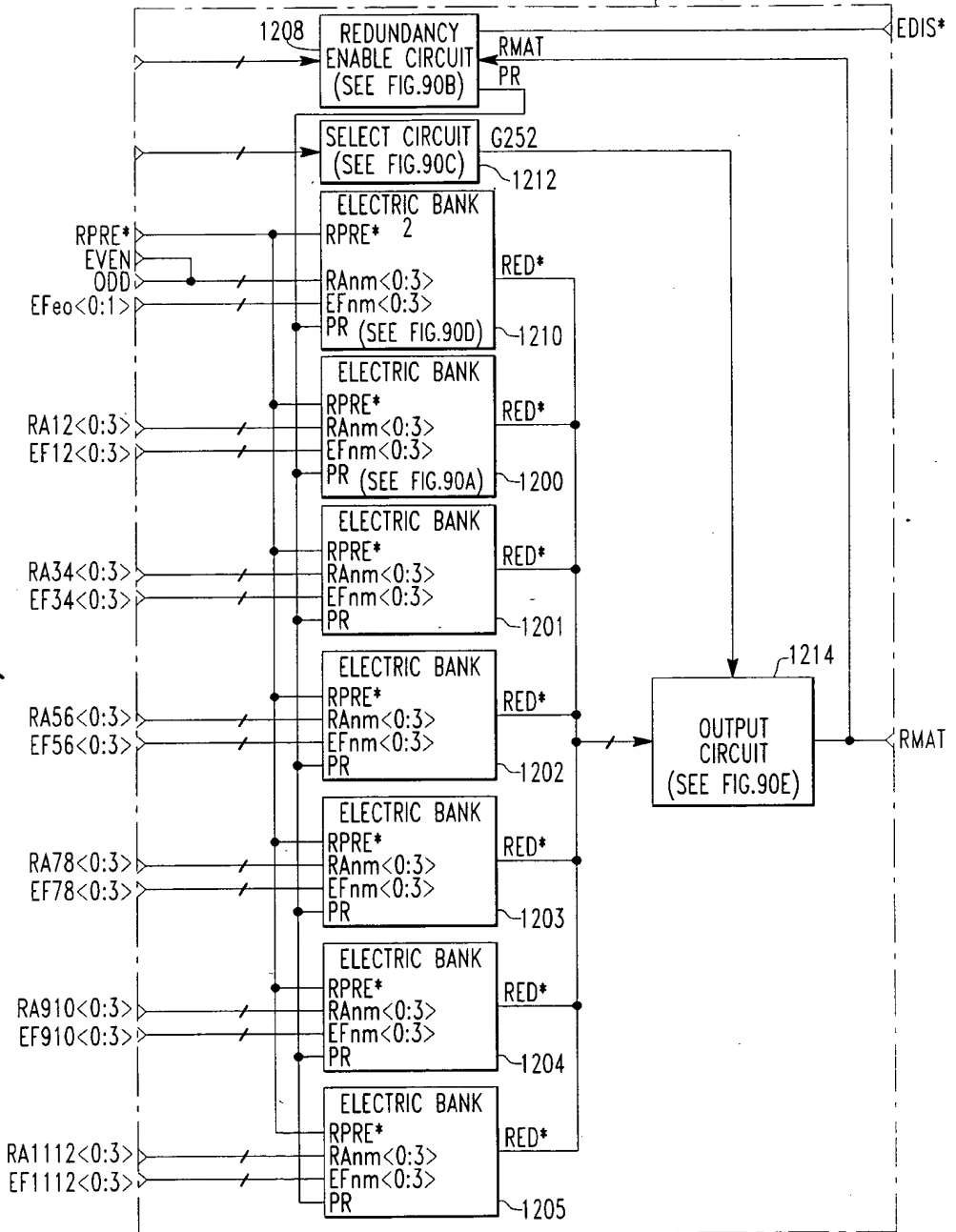


FIG. 89

FIG. 90A

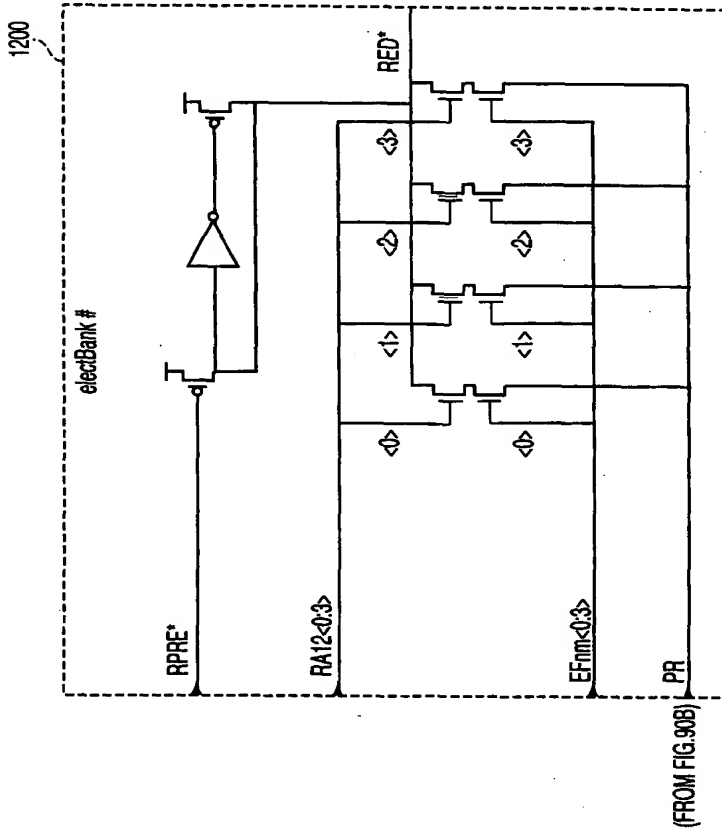


FIG. 90A

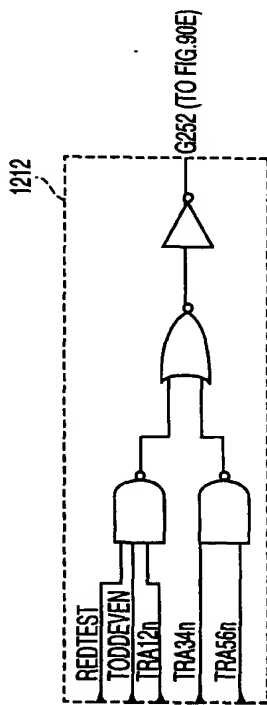


FIG. 90C

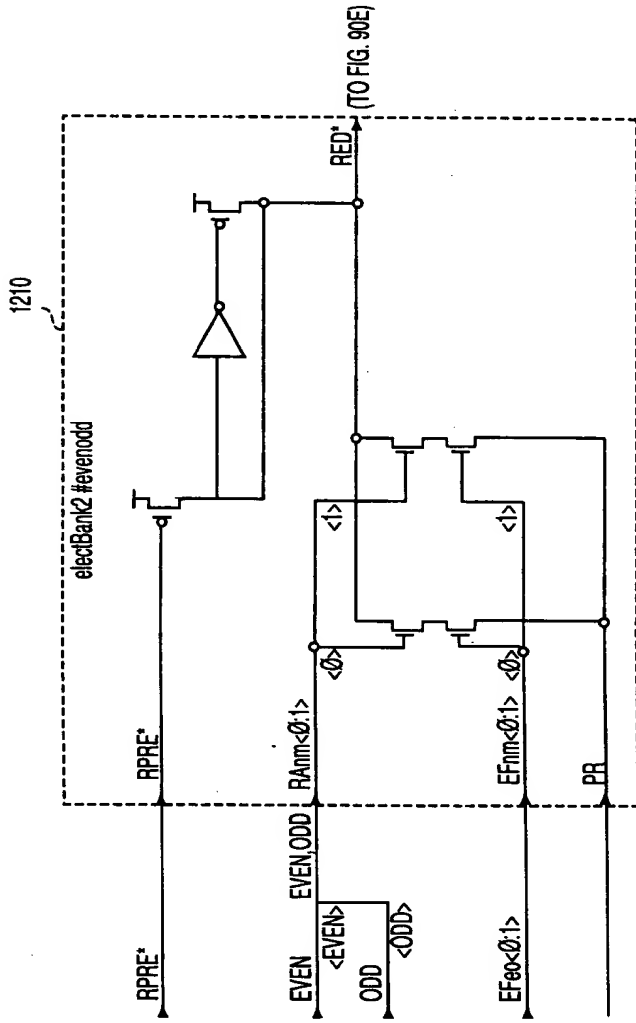


FIG. 90D

FIG. 90E

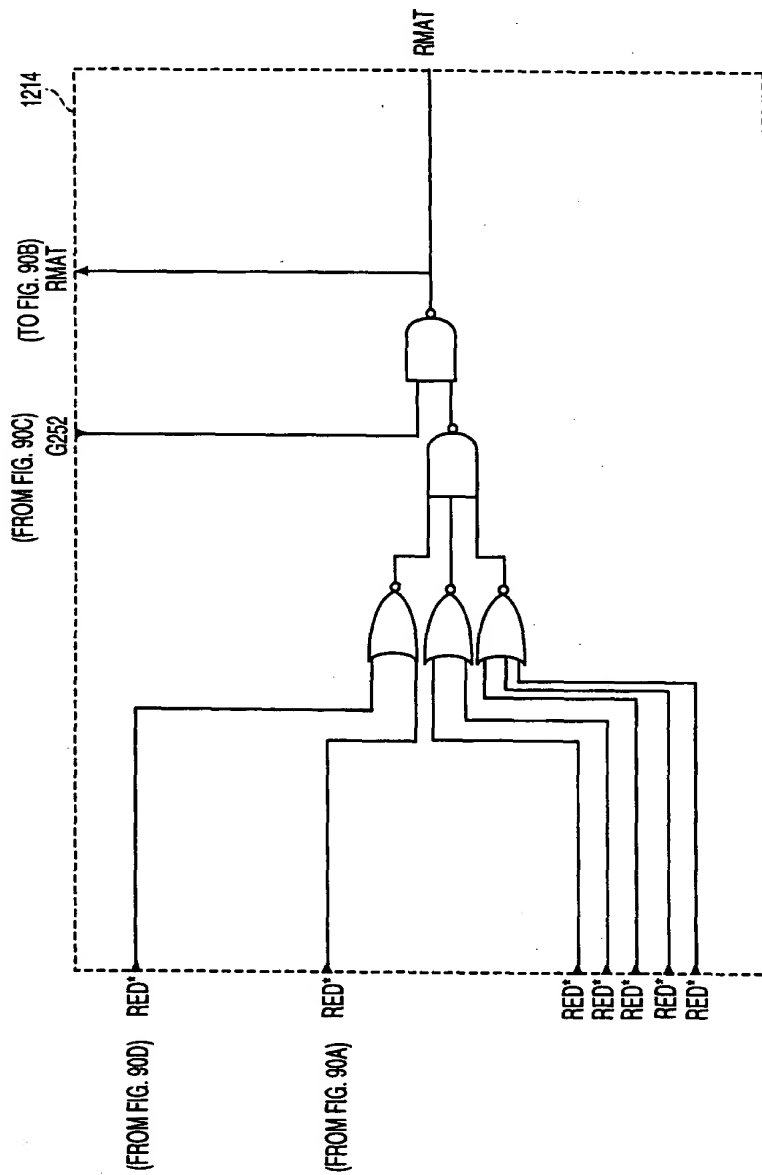
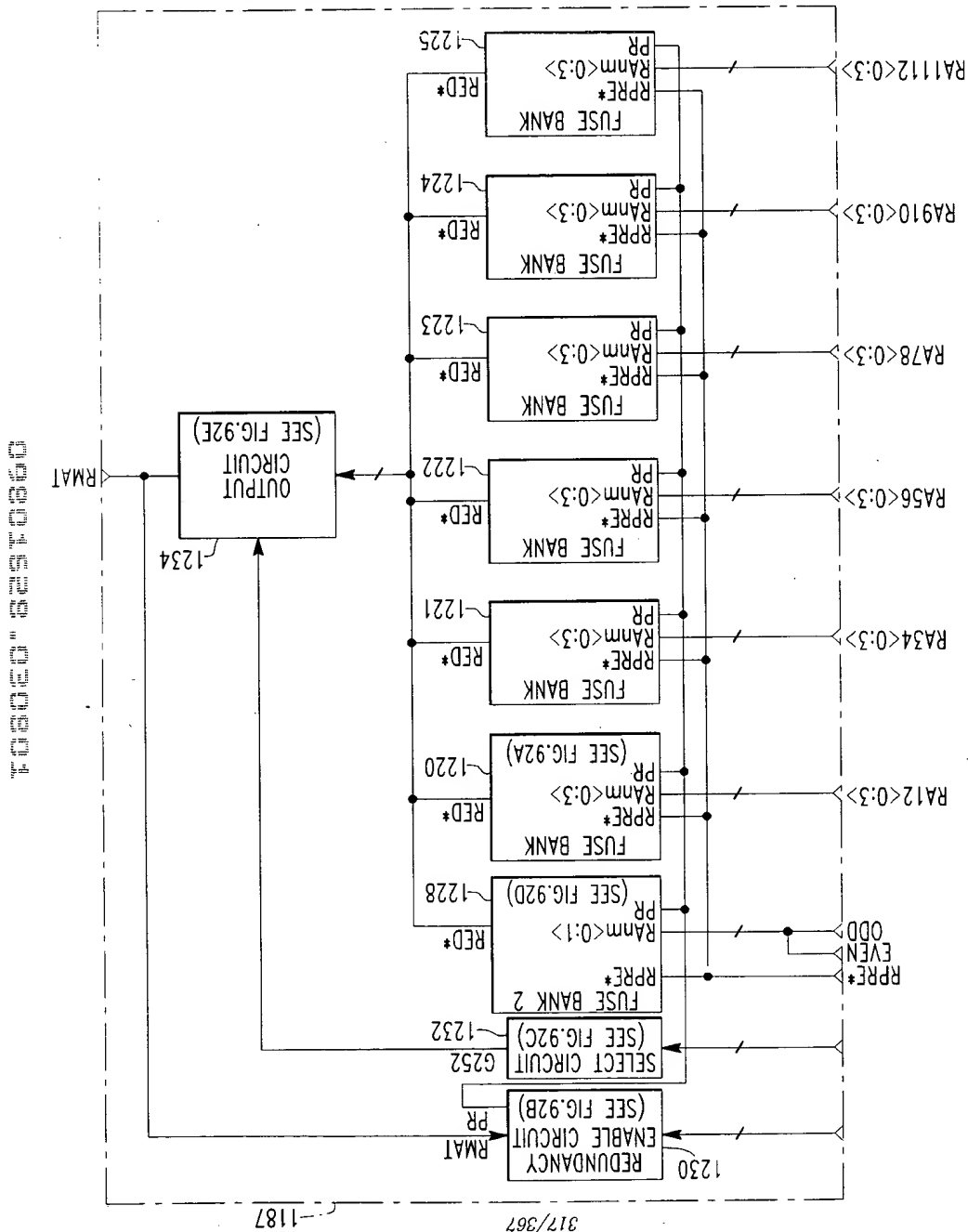


FIG. 90E

FIG. 91



00001522 000001

FIG. 92A

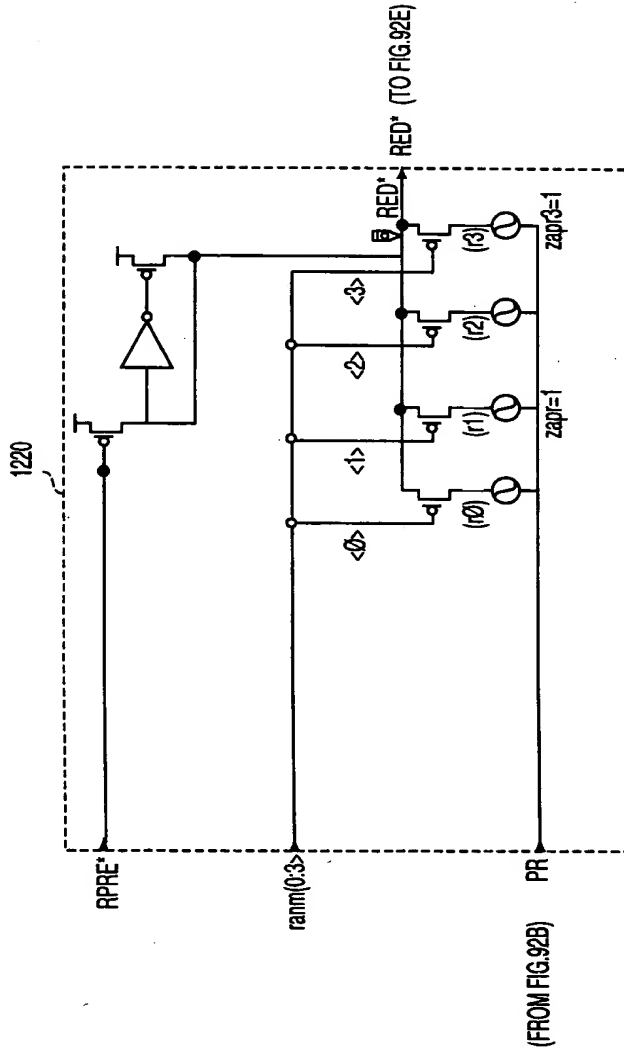


FIG. 92A

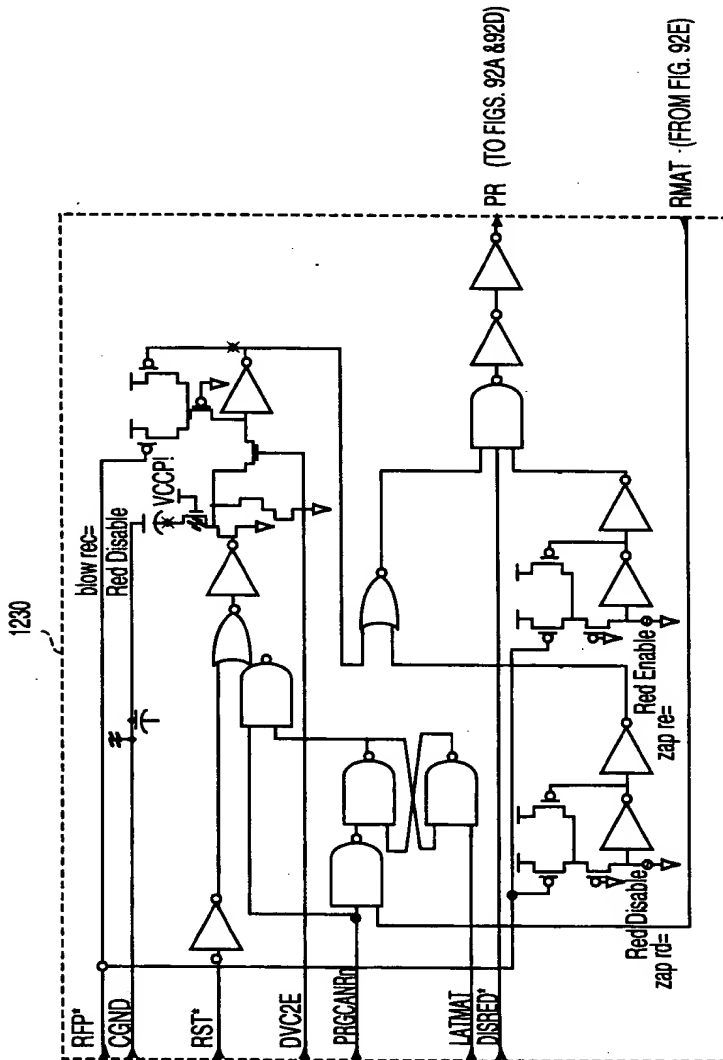


FIG. 92B

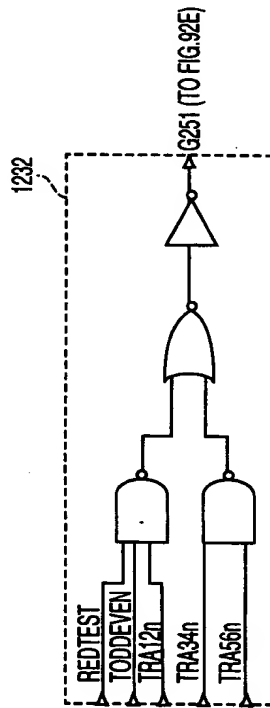
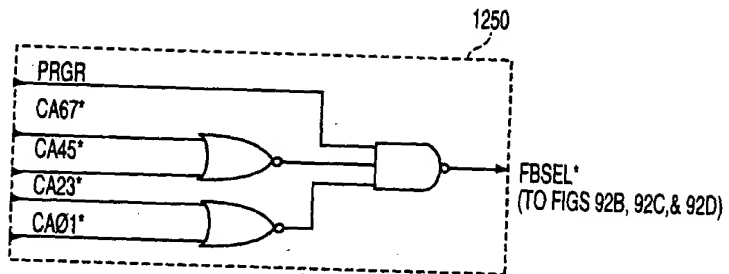


FIG. 92C

**FIG. 93A**

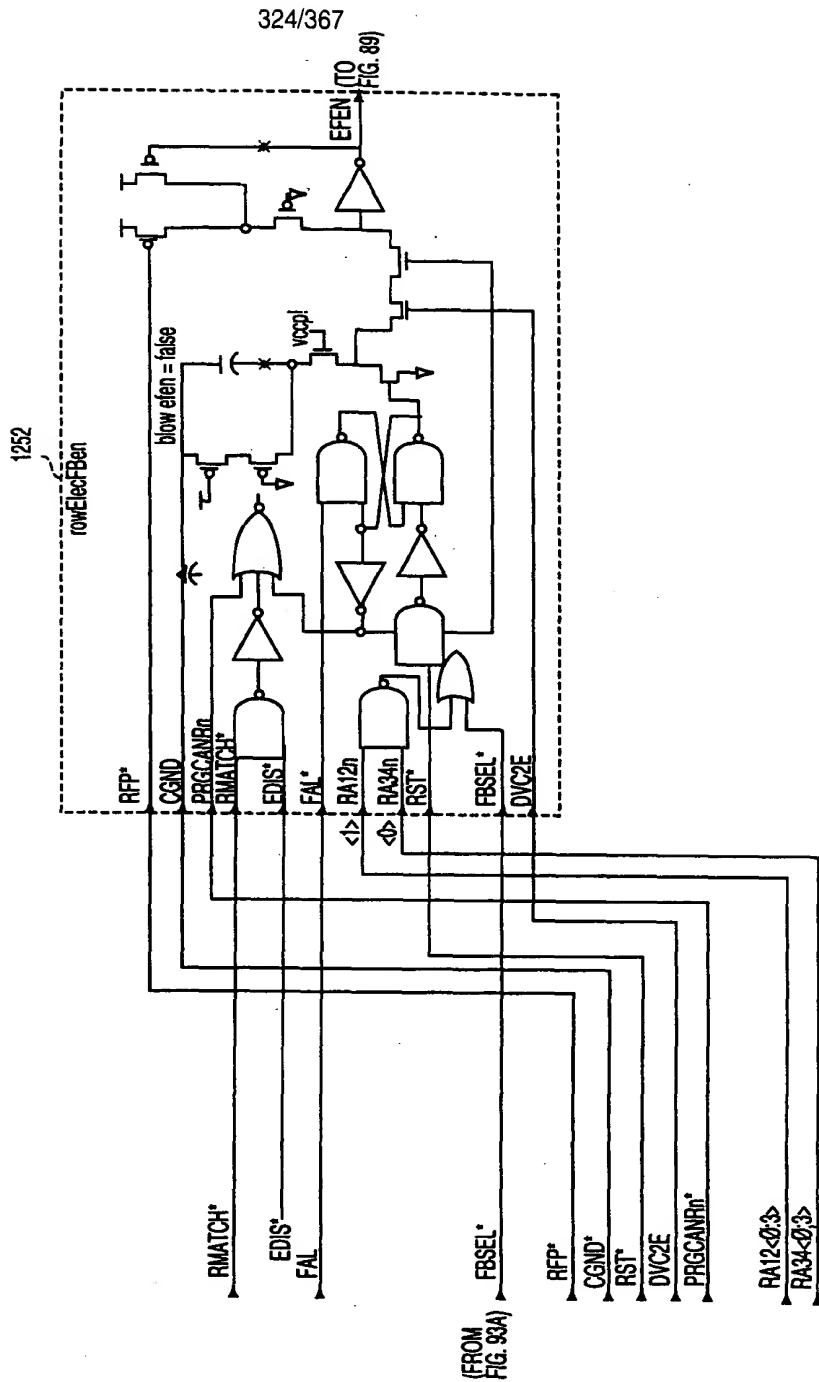


FIG. 93B

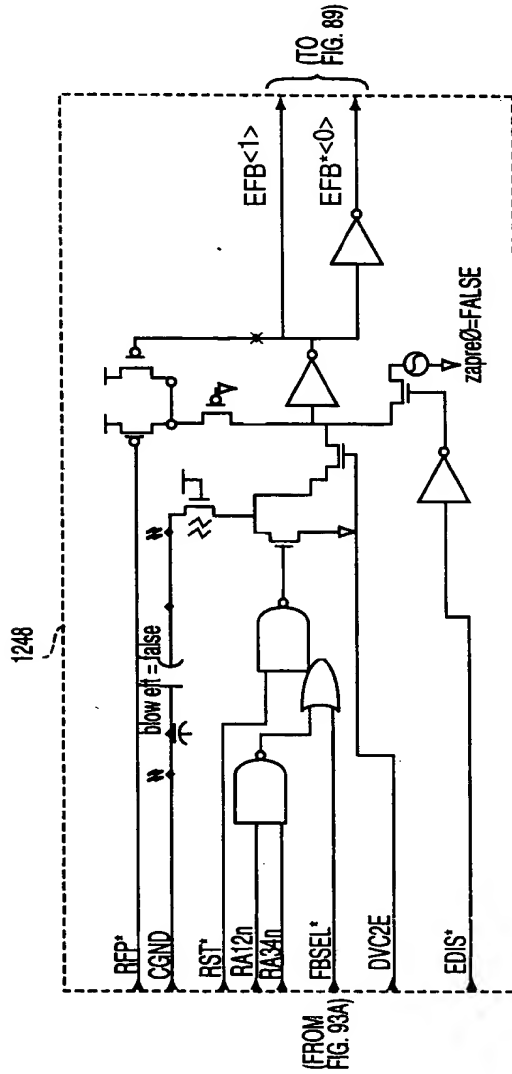


FIG. 93C

1240

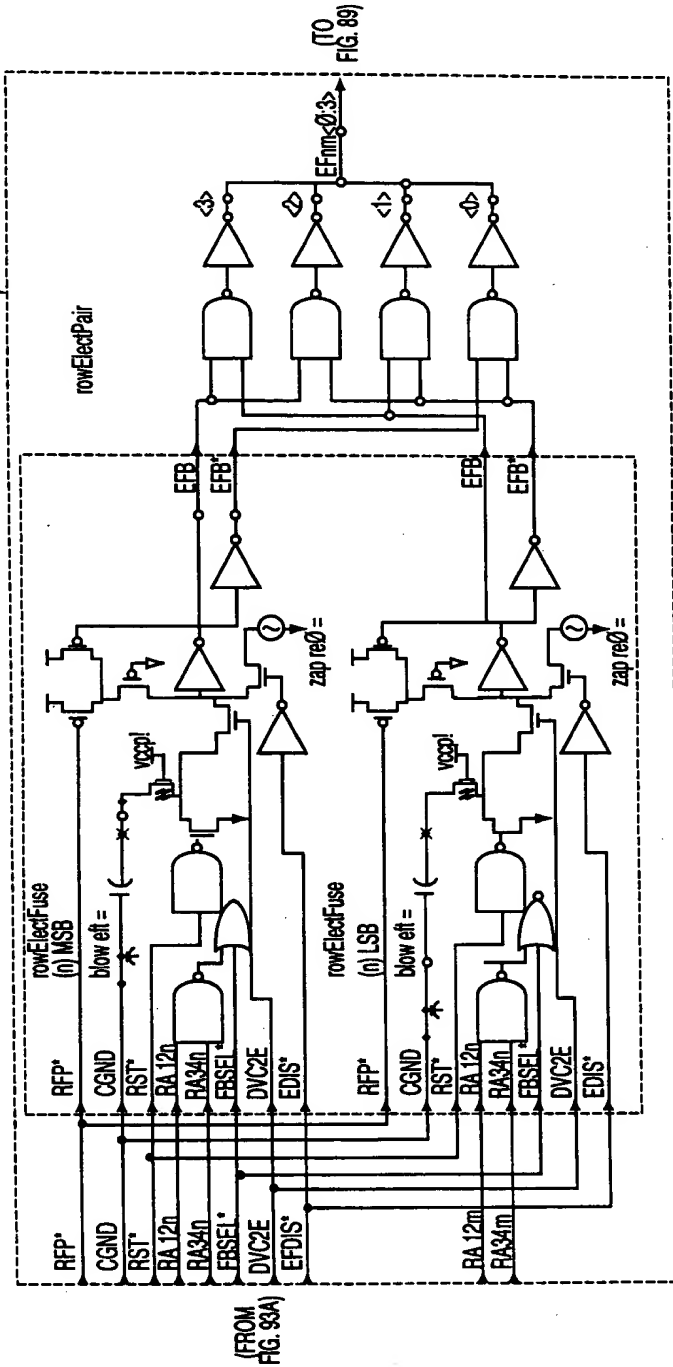
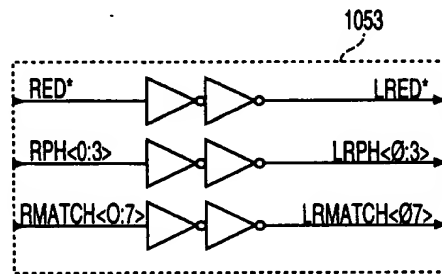


FIG. 93D

**FIG. 94**

1059

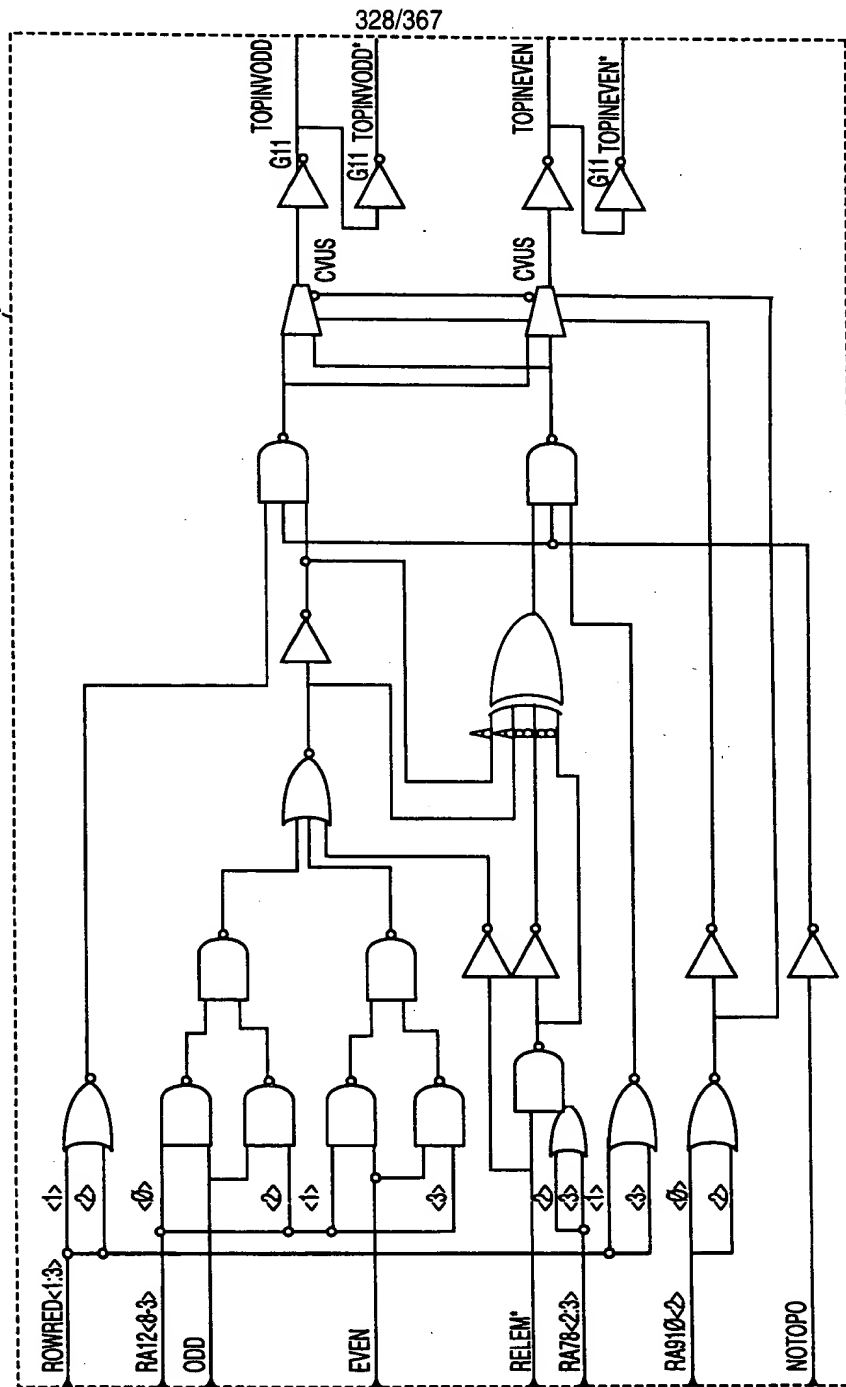


FIG. 95

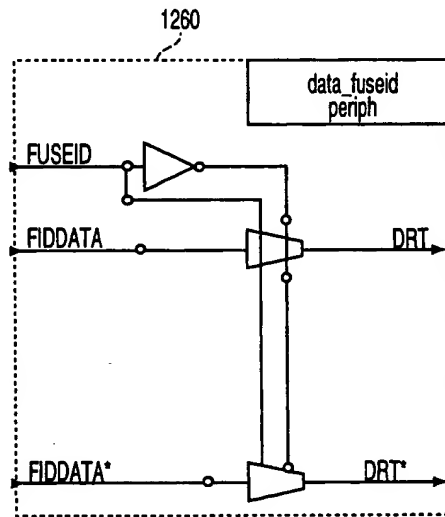
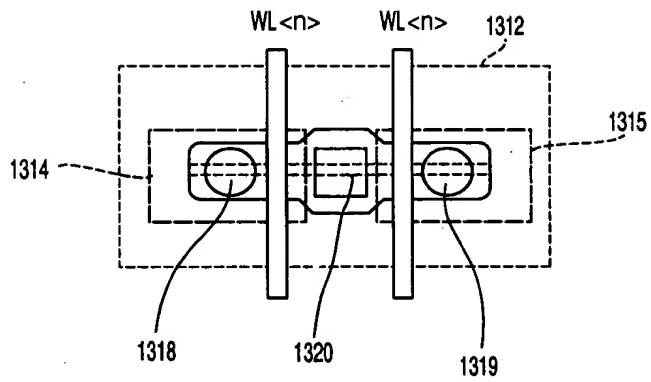
**FIG. 96**



FIG. 97-1 | FIG. 97-2

FIG. 97-1

**FIG. 98**

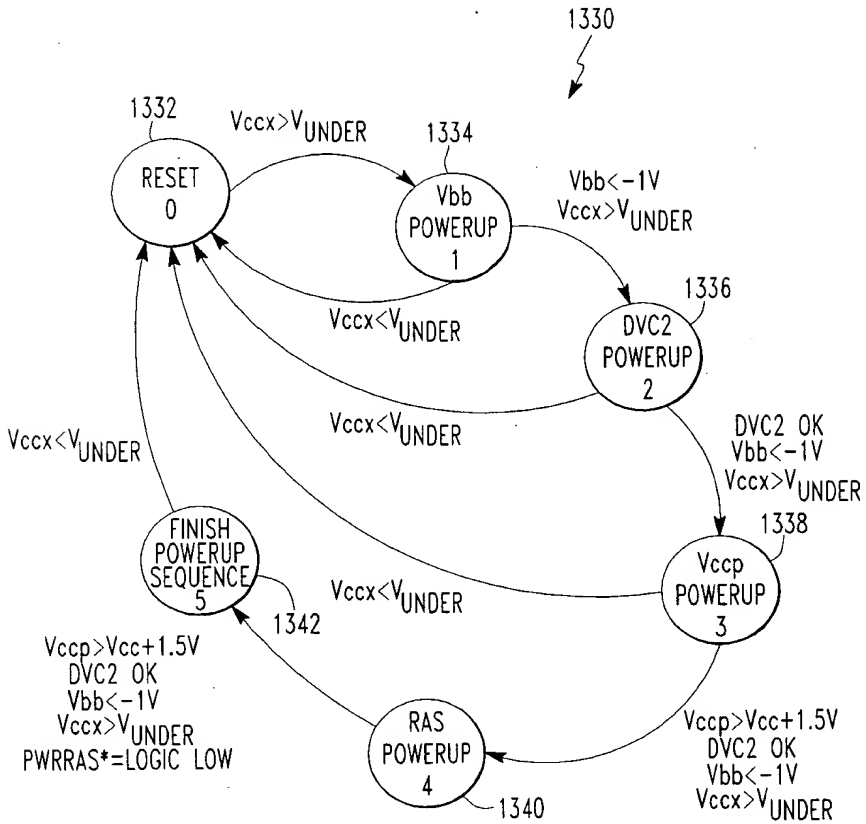


FIG. 99

FIG. 100

1348

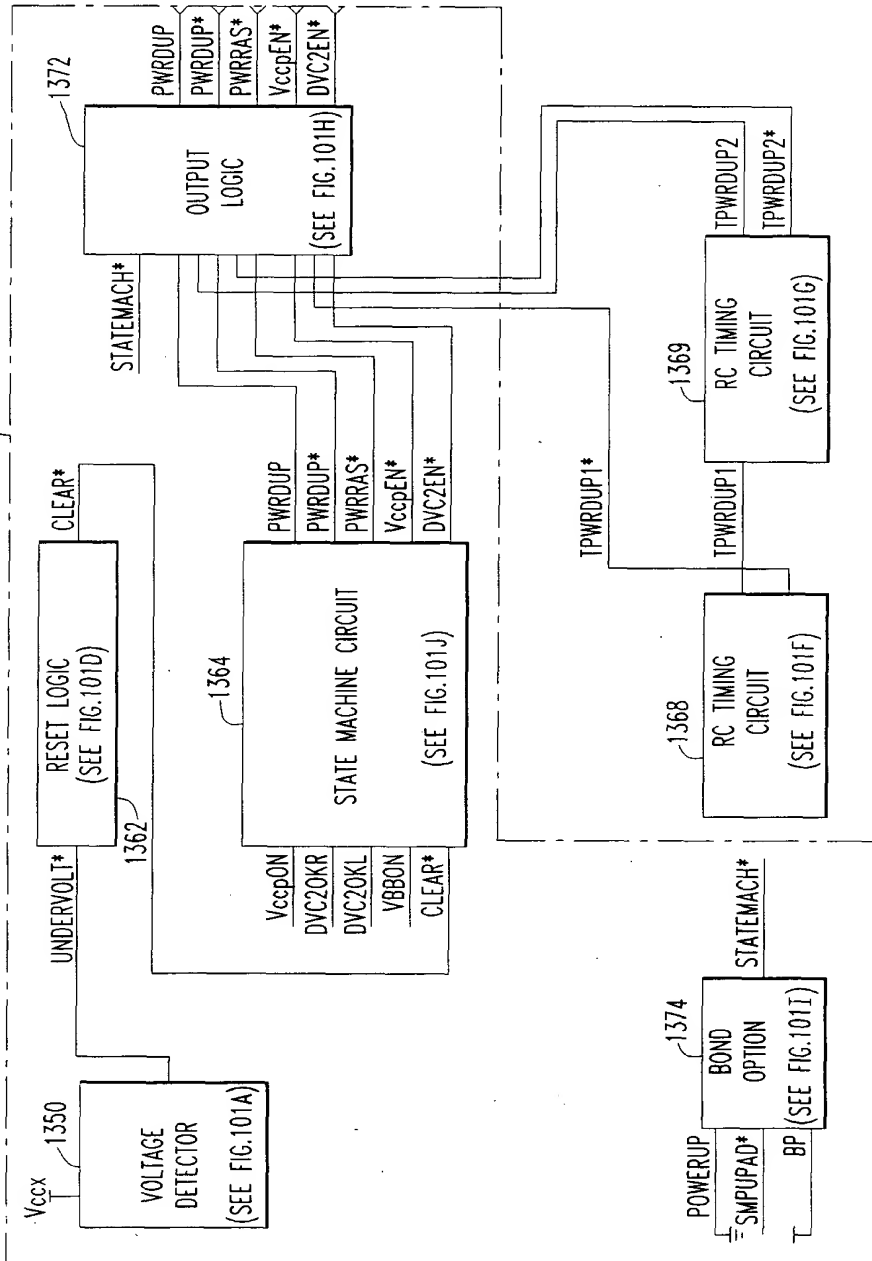


FIG. 100

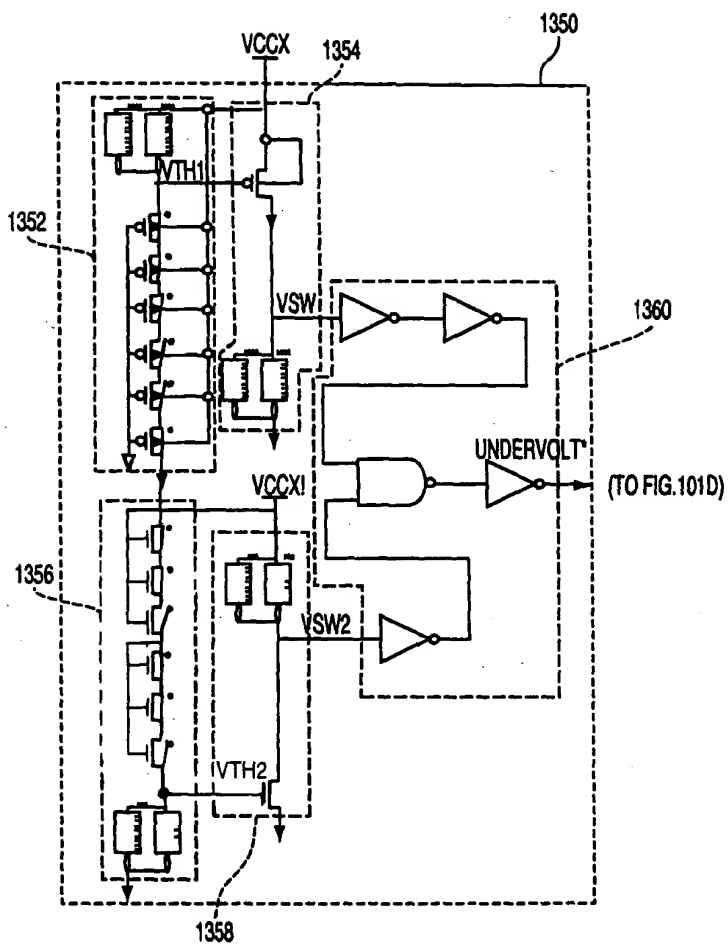
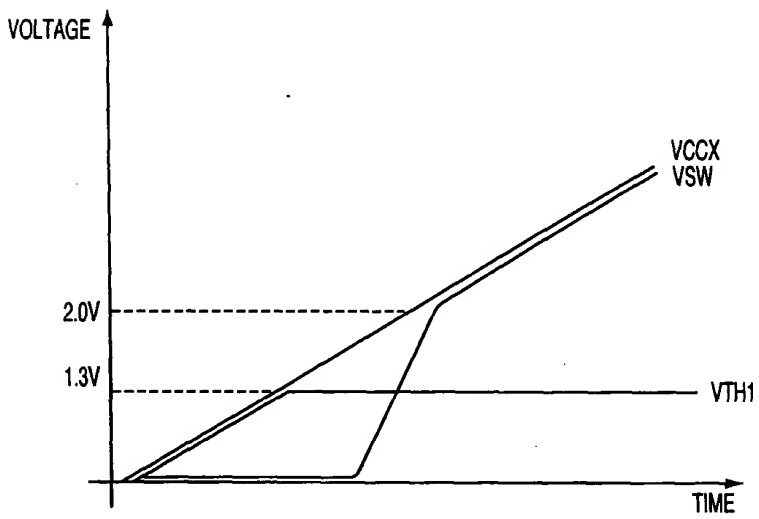
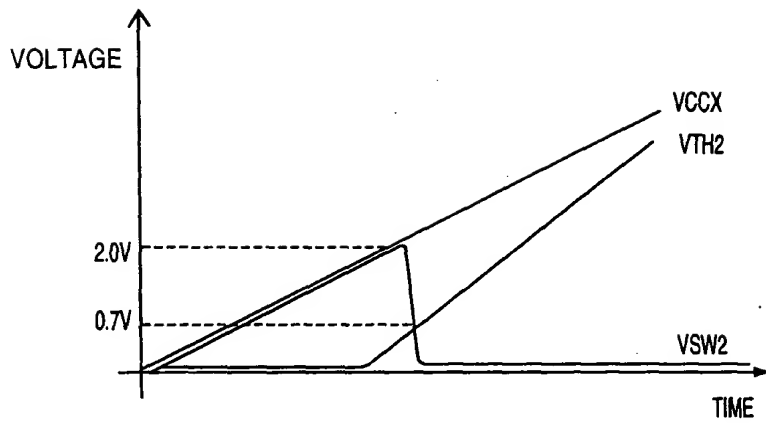


FIG. 101A

**FIG. 101B**

**FIG. 101C**

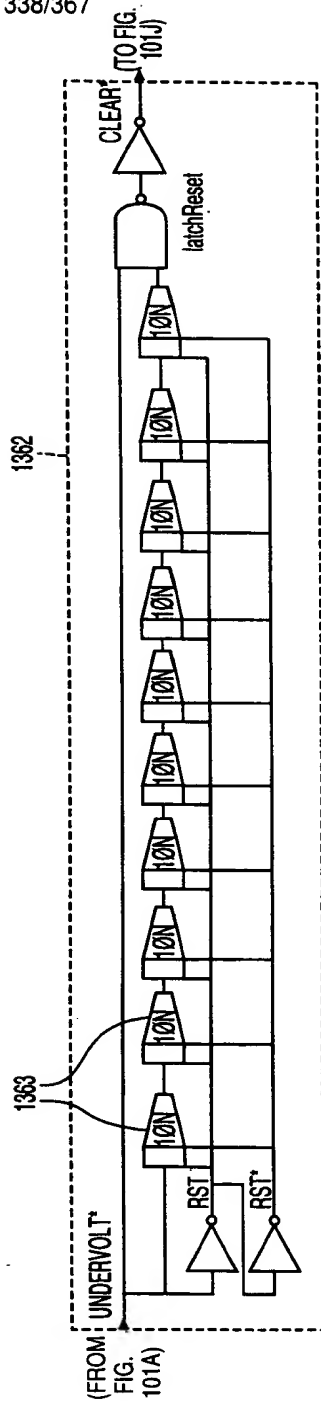


FIG. 101D

PUB. NO. 3,251,000

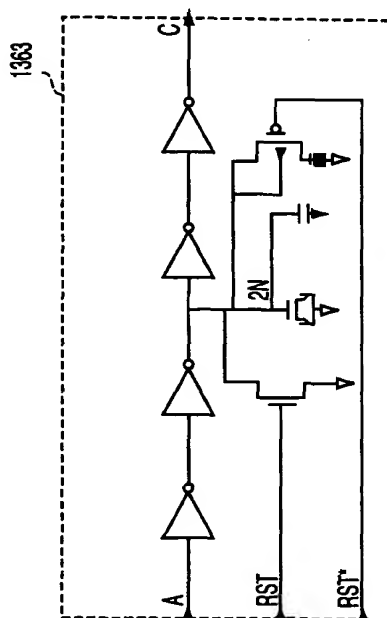


FIG. 101E

FIG. 101F

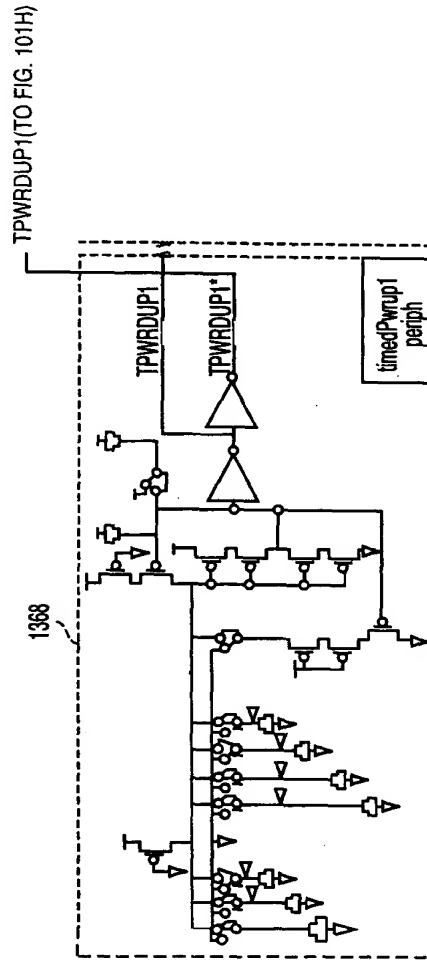


FIG. 101F

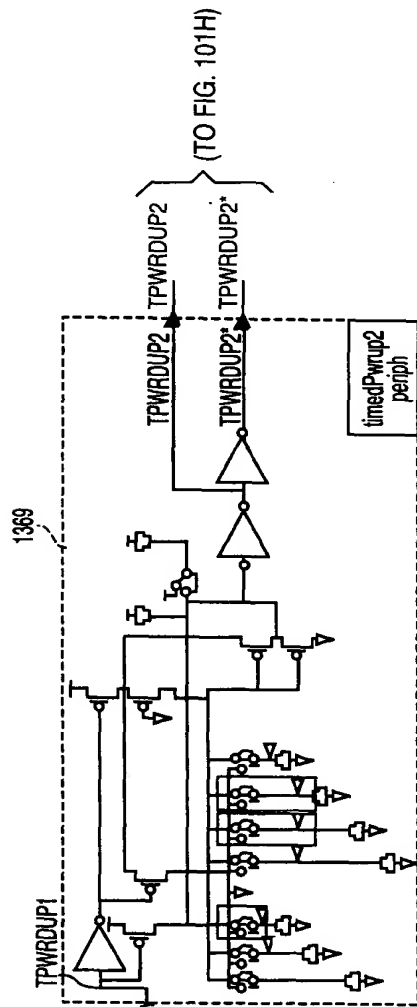


FIG. 101G

FIG. 101H

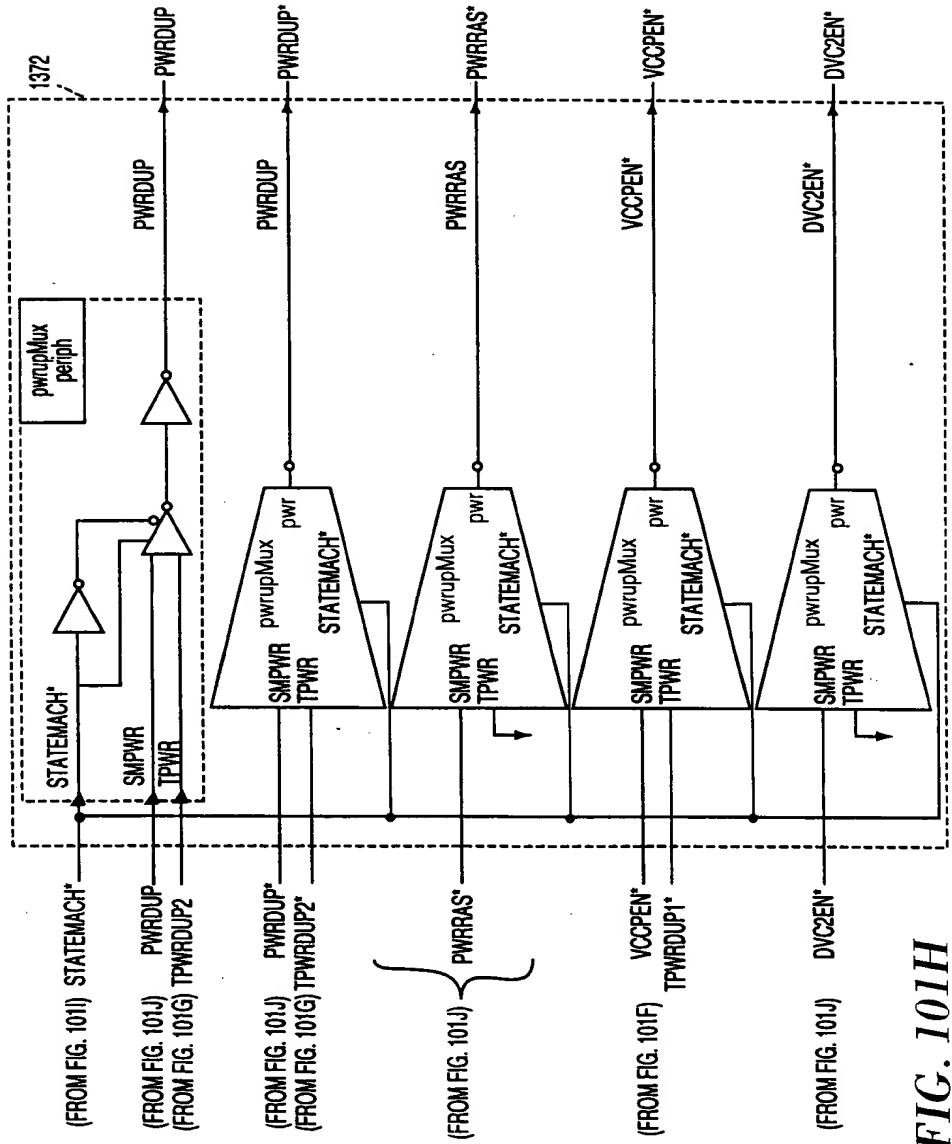


FIG. 101H

FIG. 101H

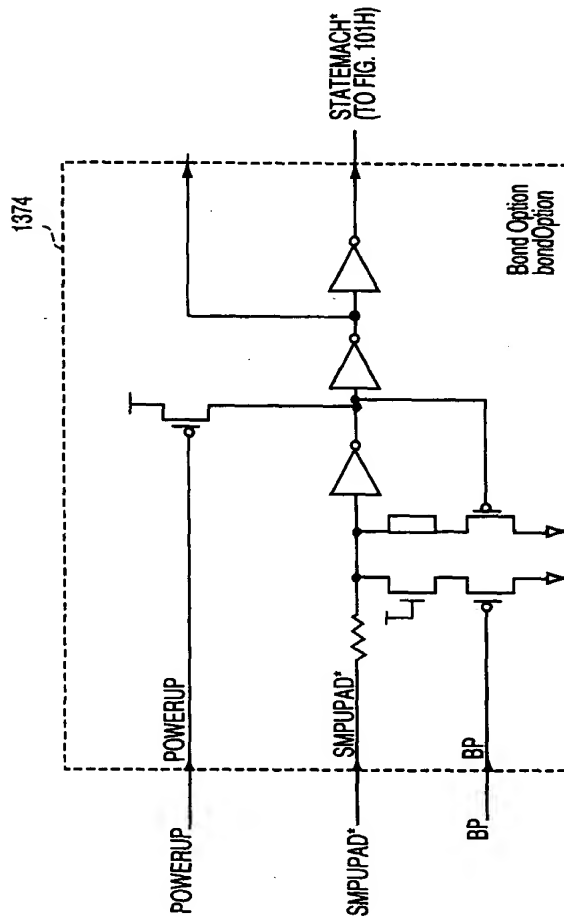


FIG. 101I

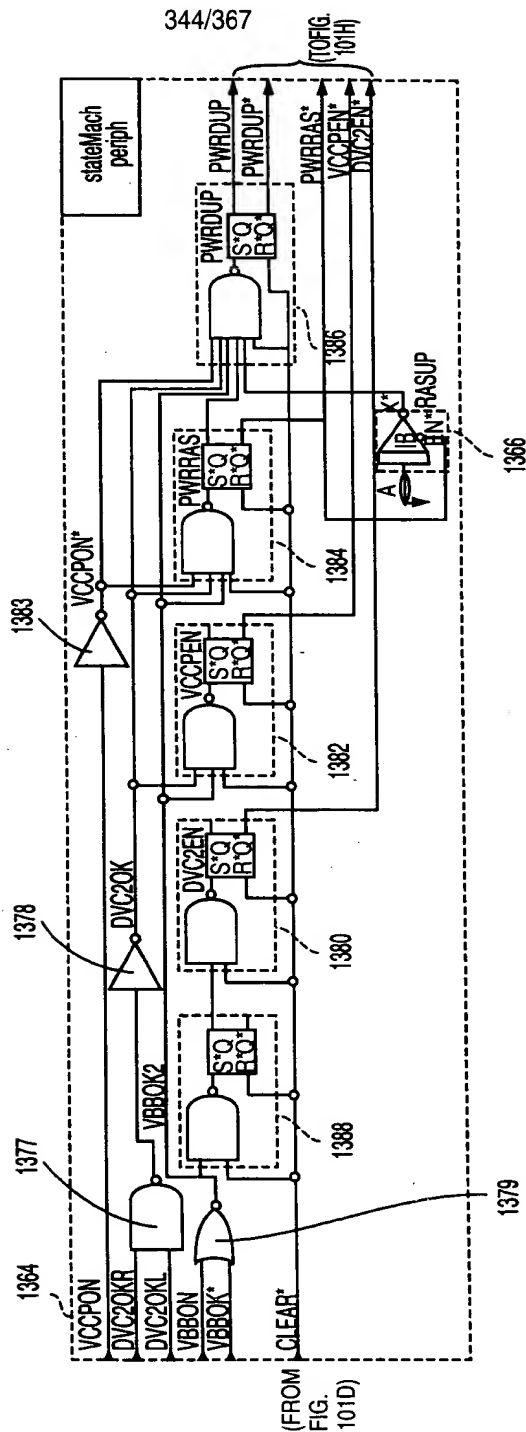
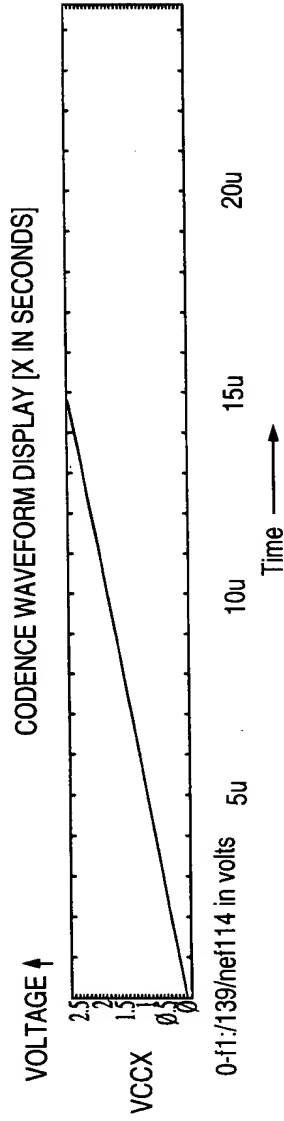
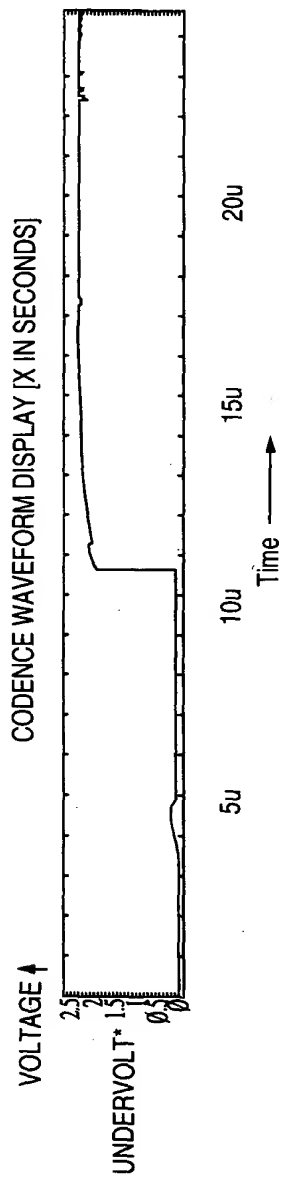


FIG. 101J



NOTE THAT PWRRAS* WAITED FOR DVC20KR

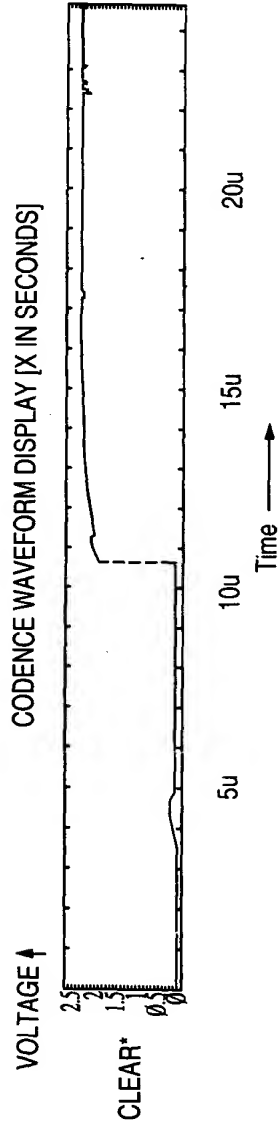
FIG. 102A



NOTE THAT PWRRAS* WAITED FOR DVC20KR

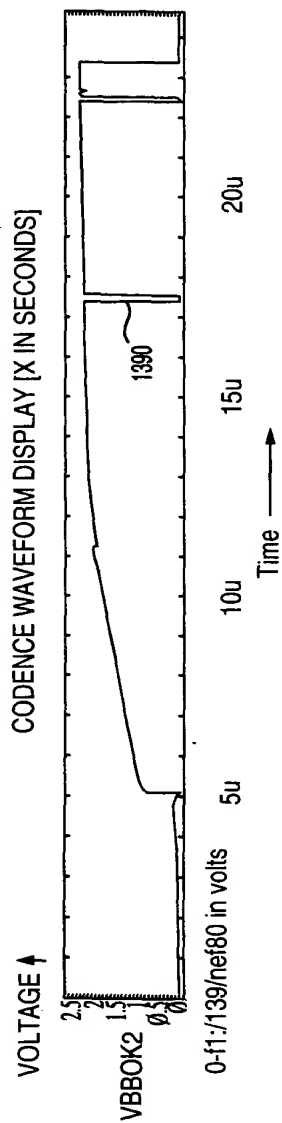
FIG. 102B

P00000*029T0800



NOTE THAT PWRRAS* WAITED FOR DVC20KR

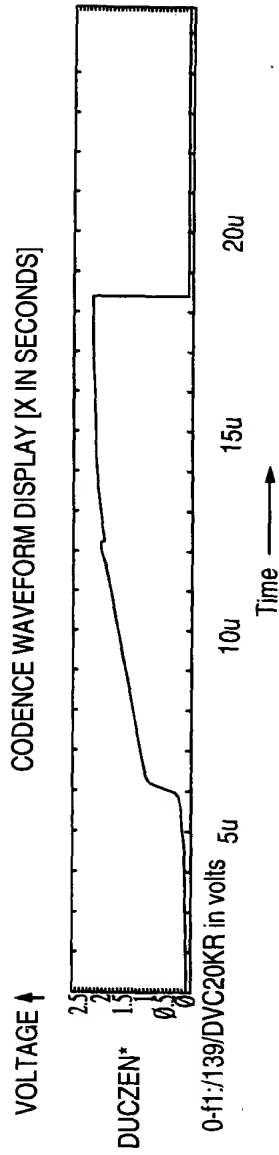
FIG. 102C



NOTE THAT PWRRAS* WAITED FOR DVC20KR

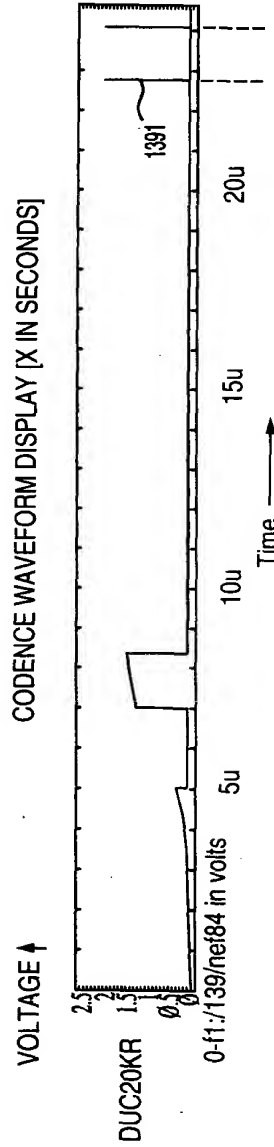
FIG. 102D

FORM 20-237060



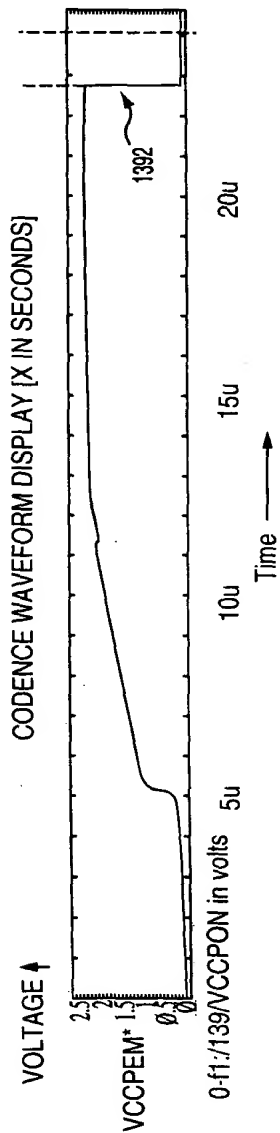
NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102E



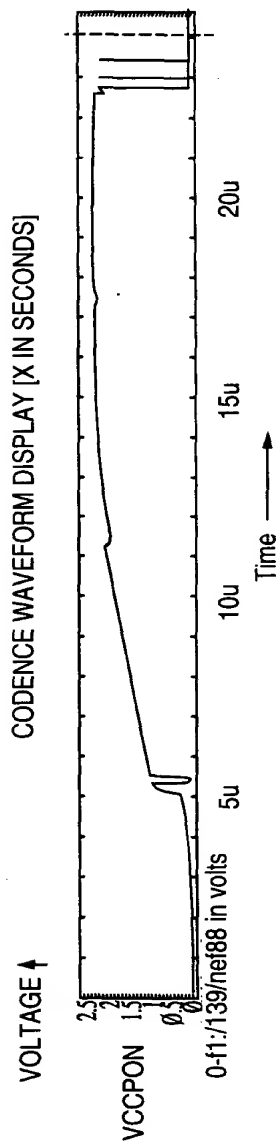
NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102F



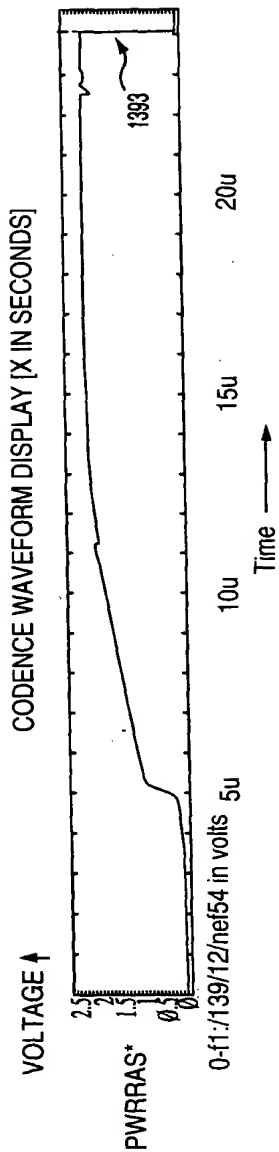
NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102C



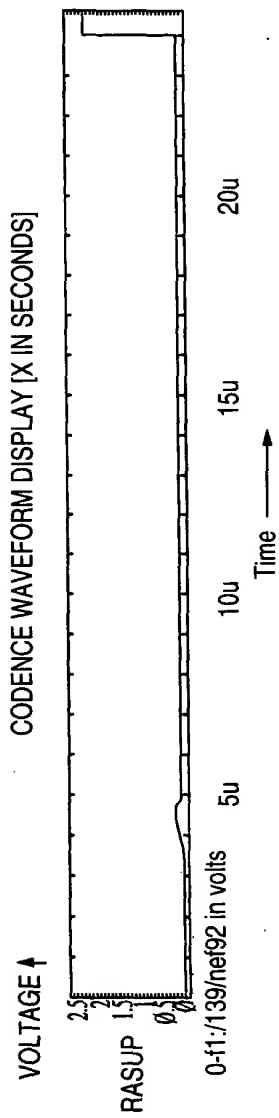
NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102H



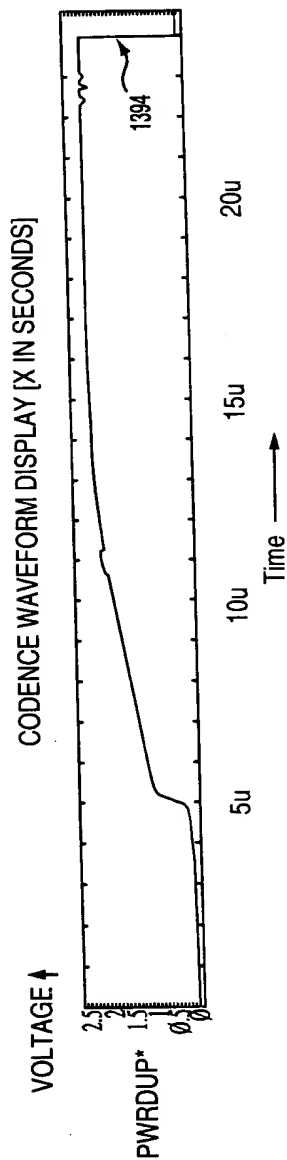
NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102I



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102J



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102K

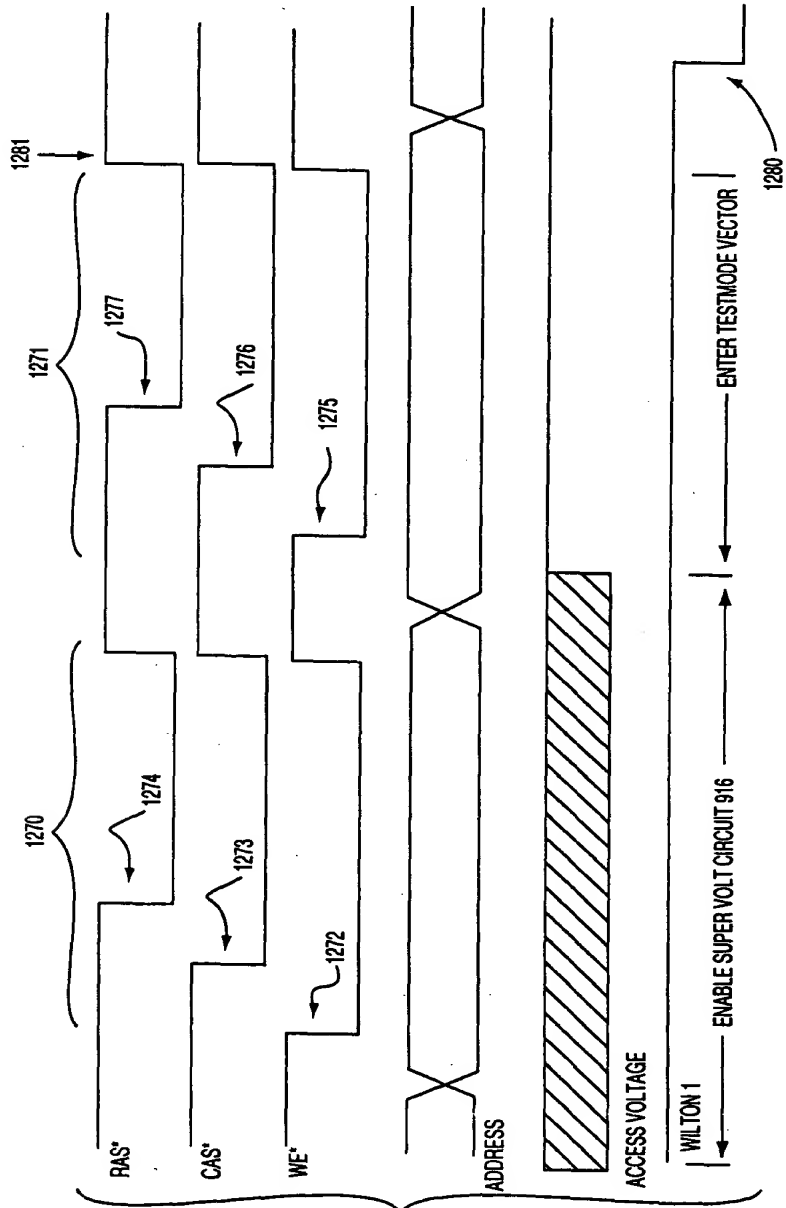


FIG.
103

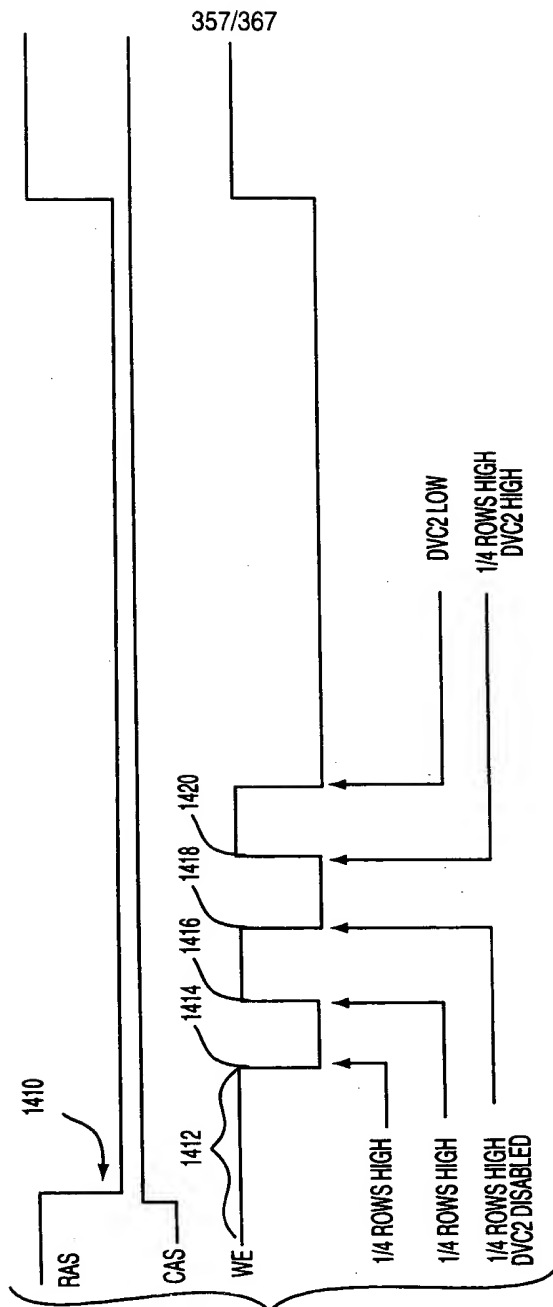


FIG.
104

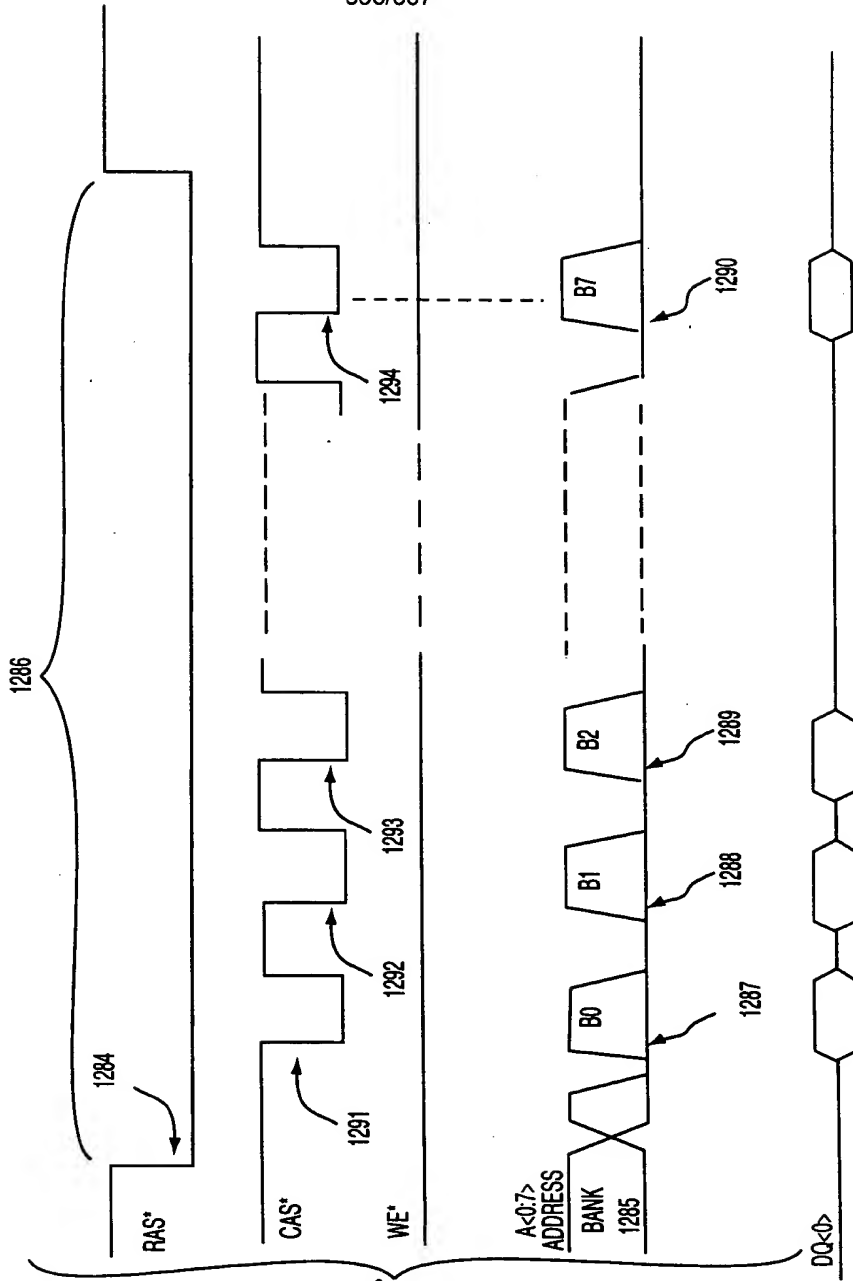
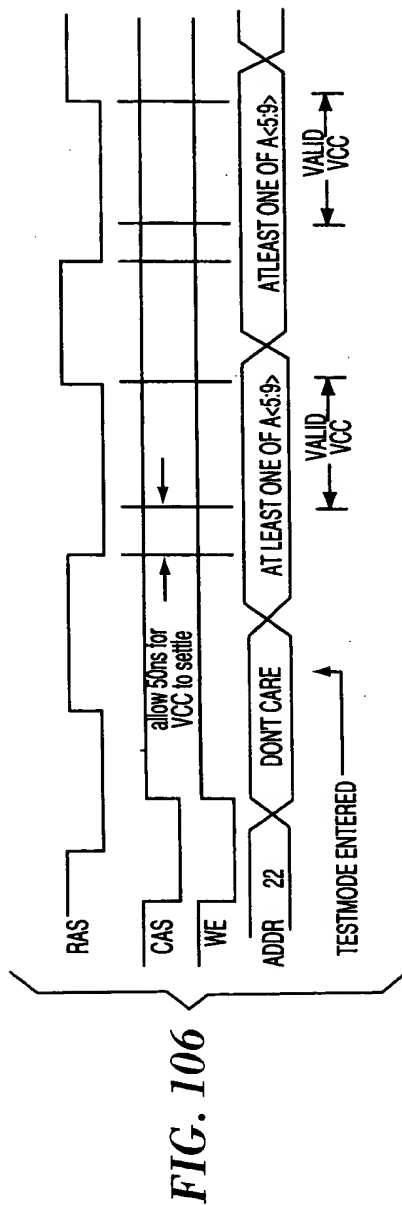


FIG. 105



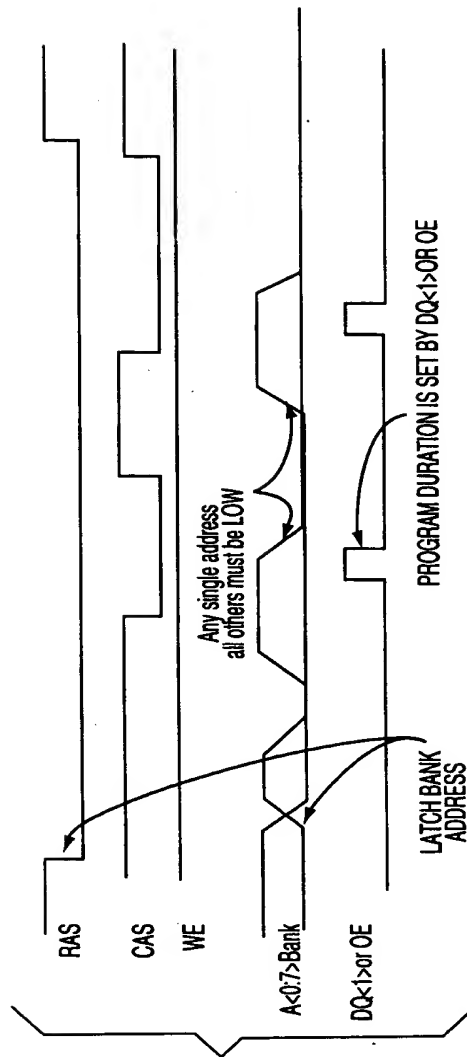


FIG. 107

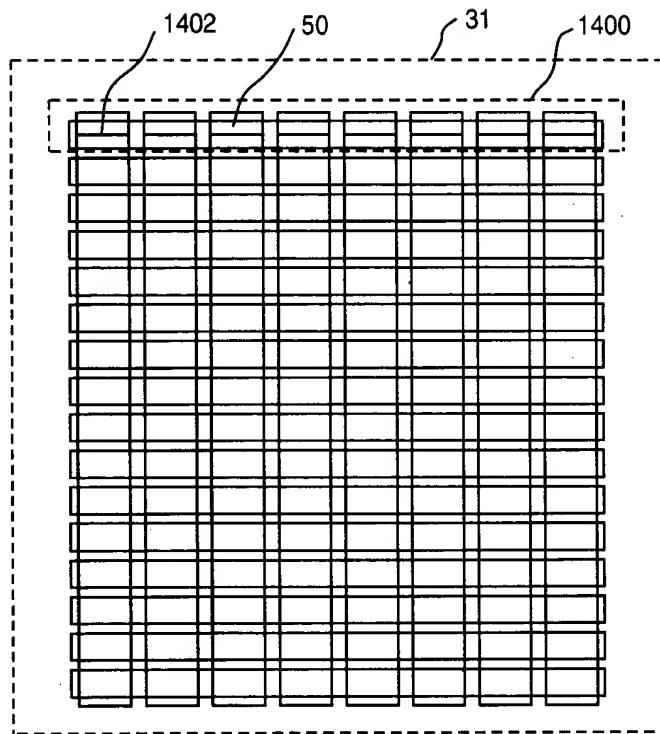


FIG. 108

00001628 020901

FIG. 109-1

FIG. 109-1

FIG. 109-2

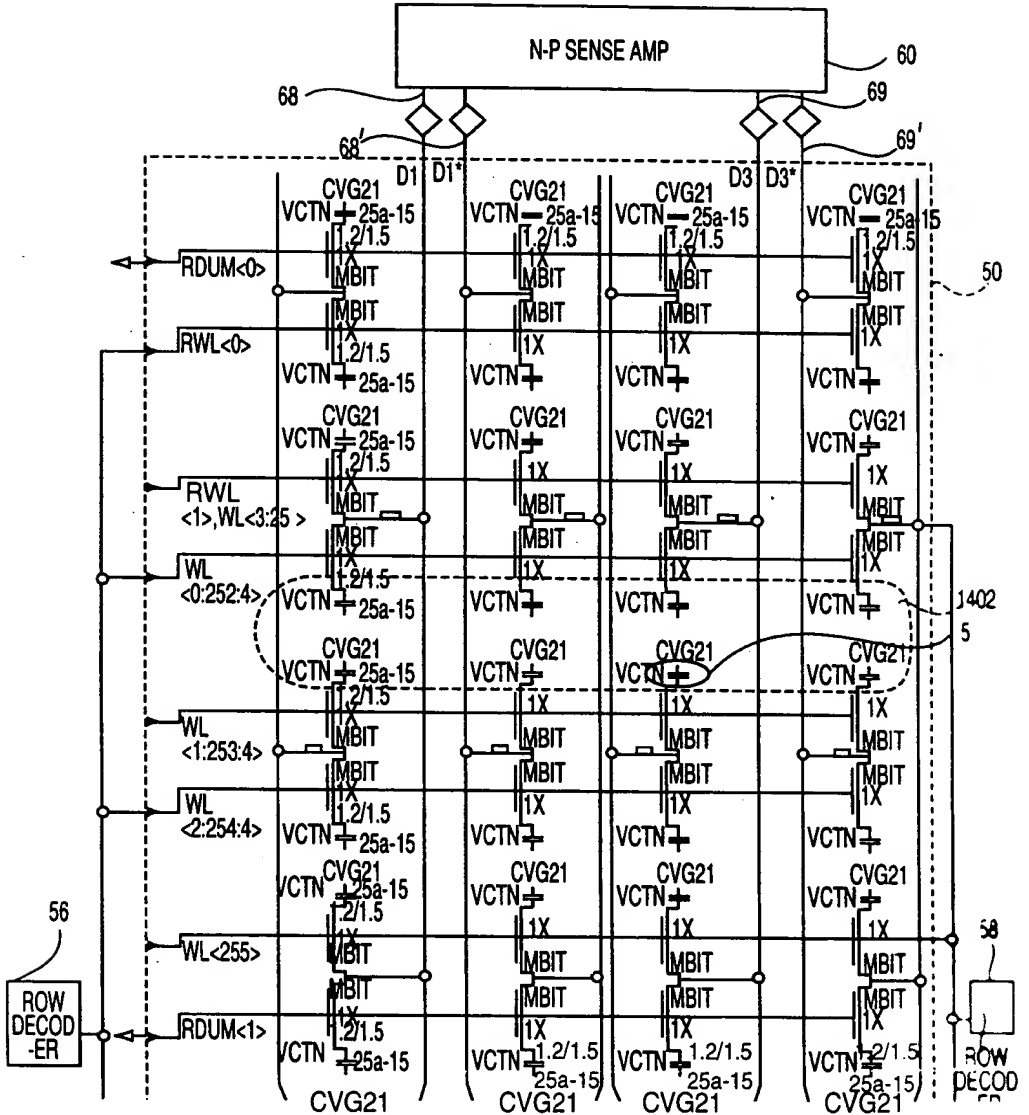


FIG. 109-2

363/367

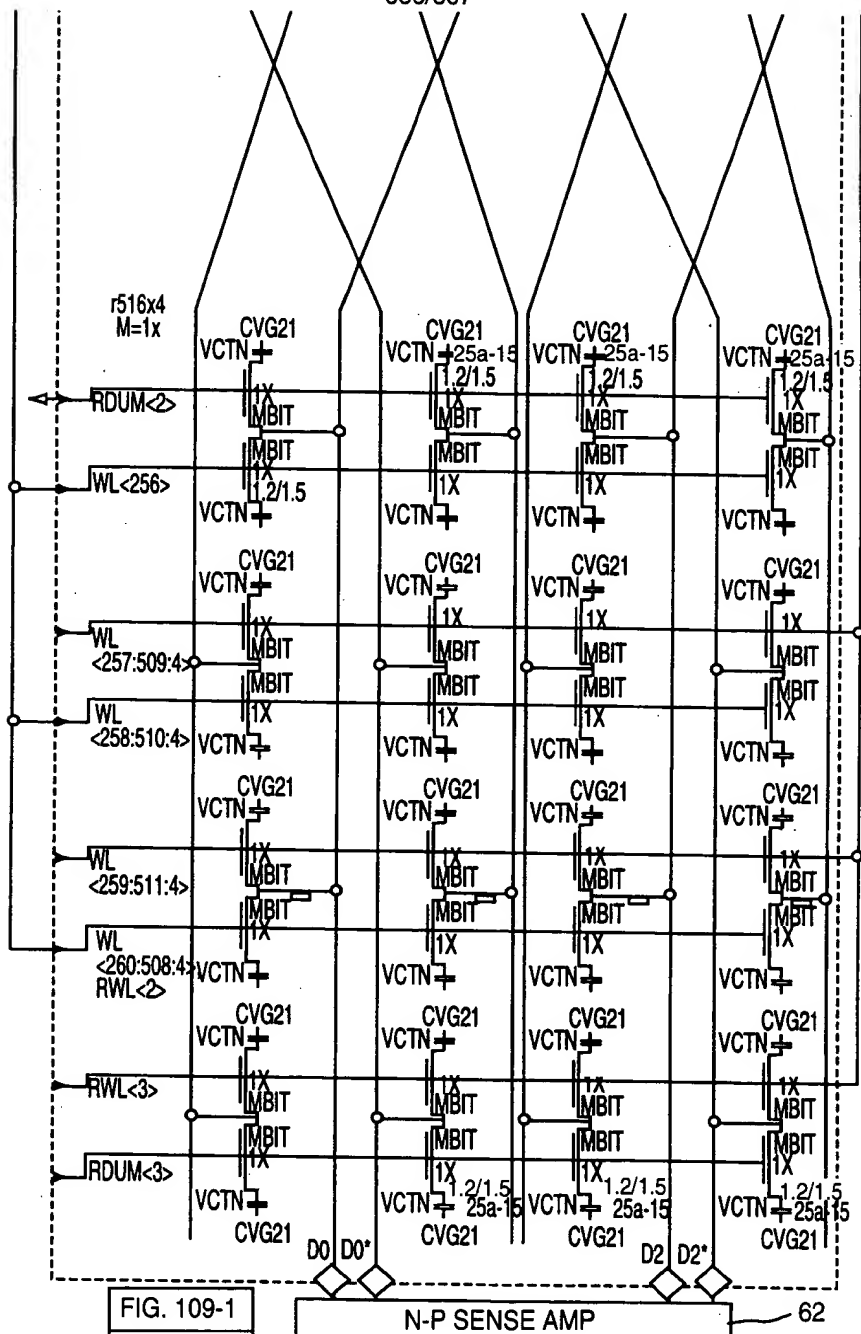


FIG. 109-1
FIG. 109-2

FIG. 109-2

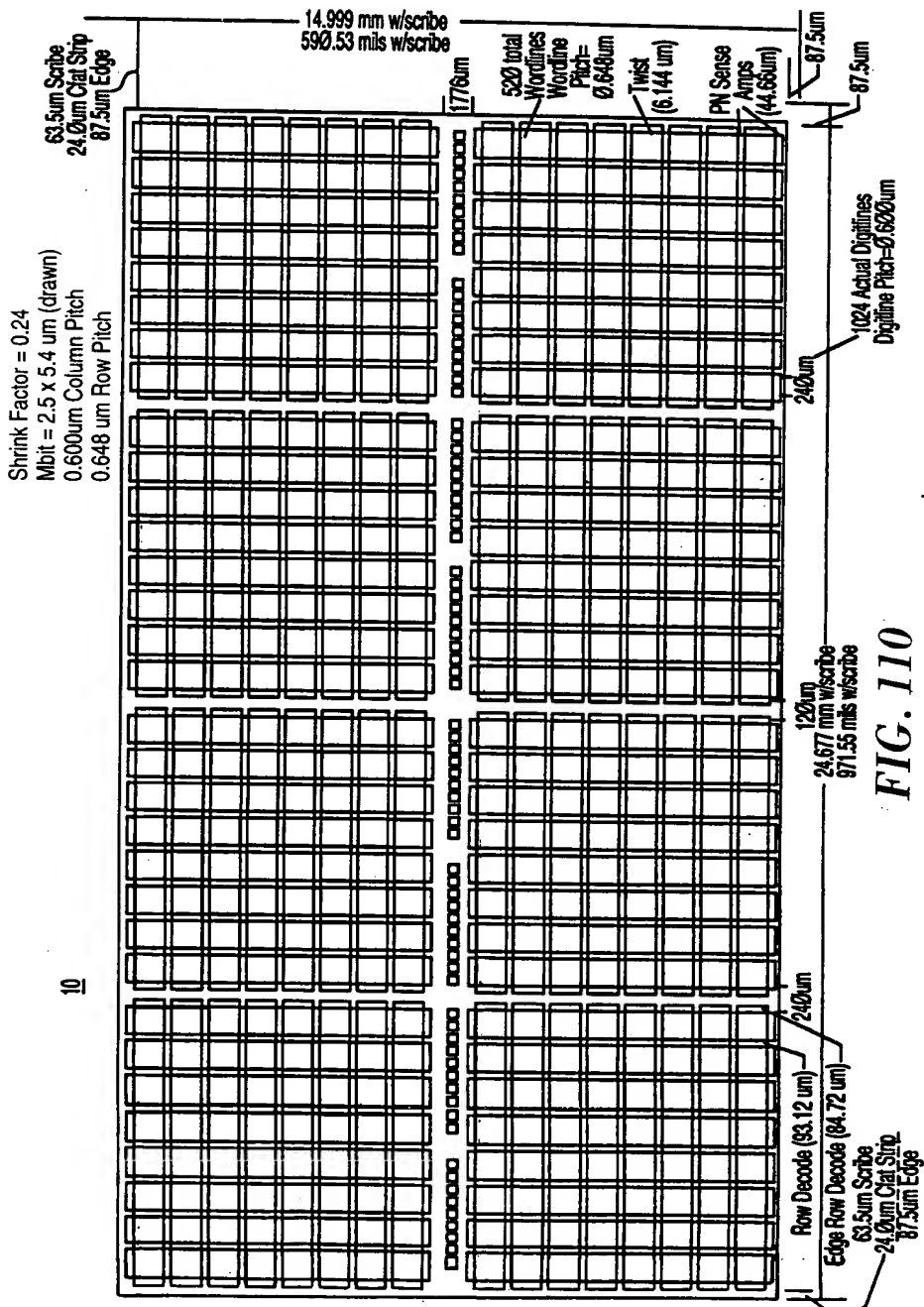


FIG. 110

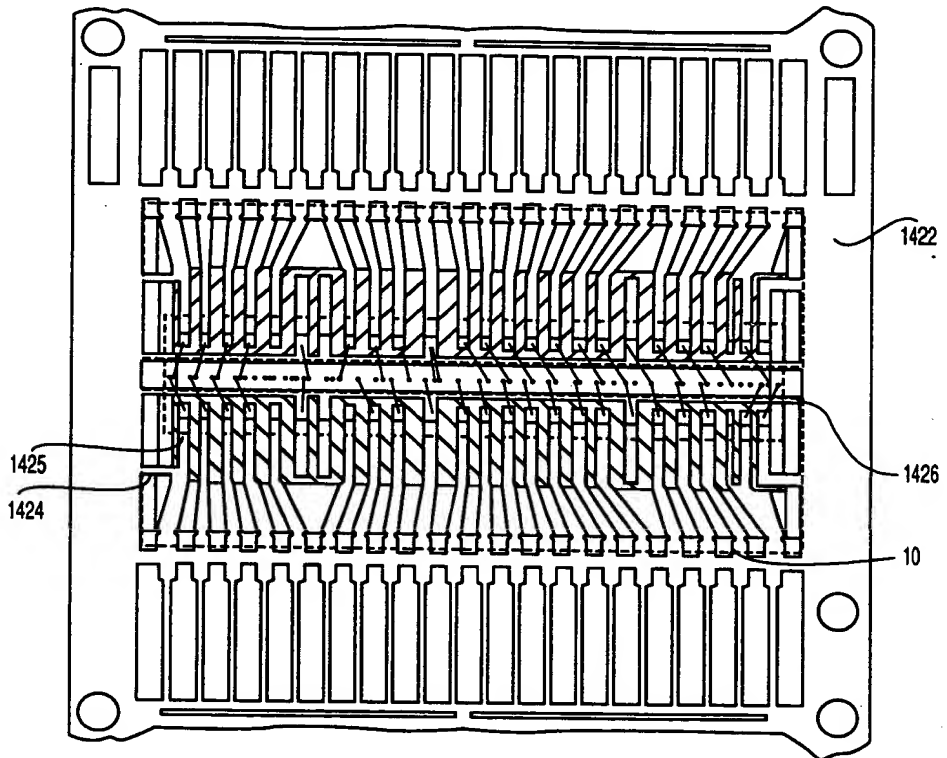


FIG. 111

0001520.020001

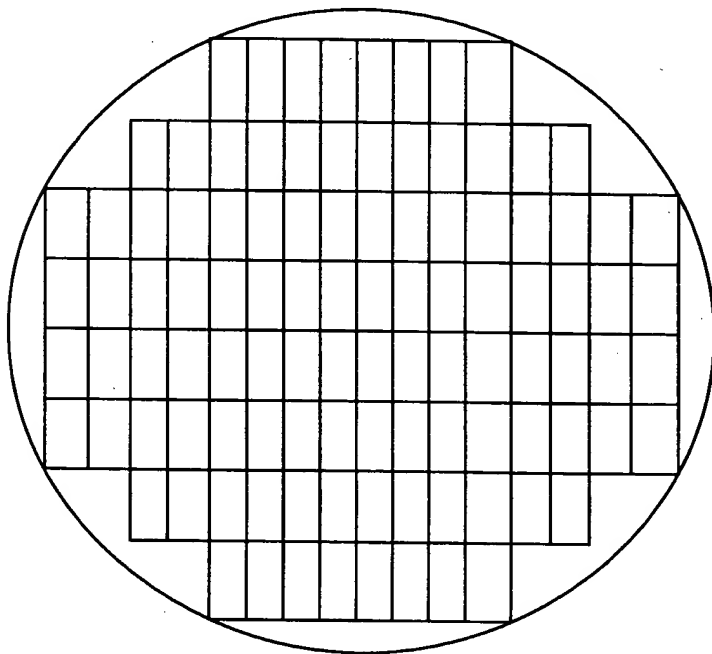


FIG. 112

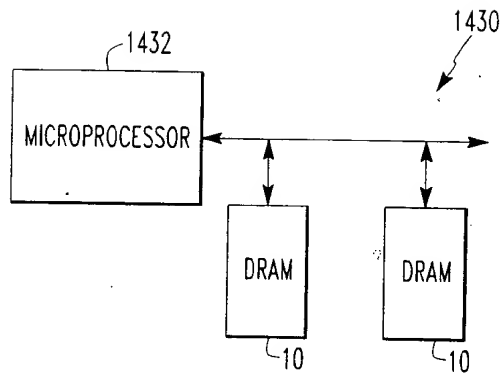


FIG. 113